

FIG 1

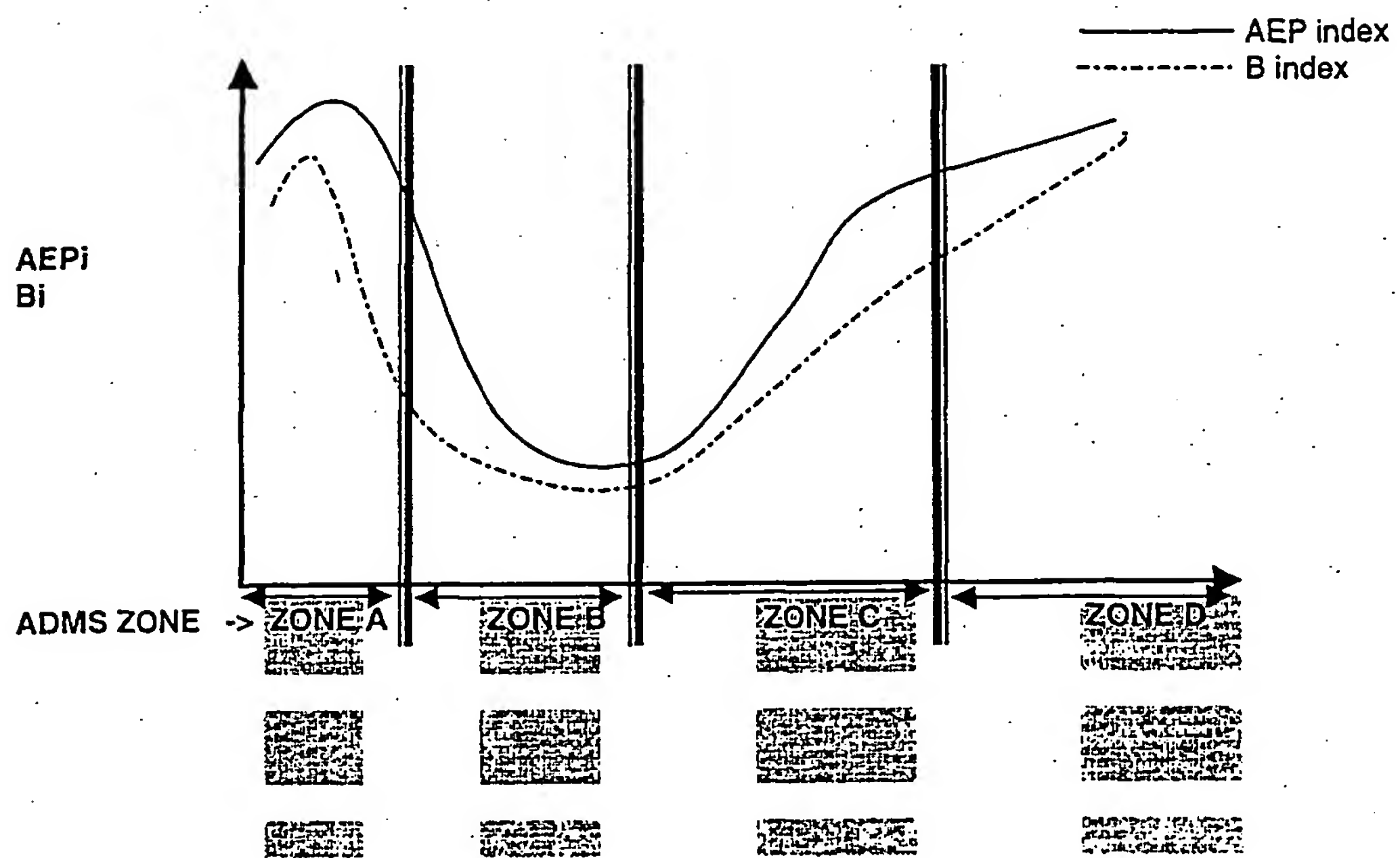


FIG 2

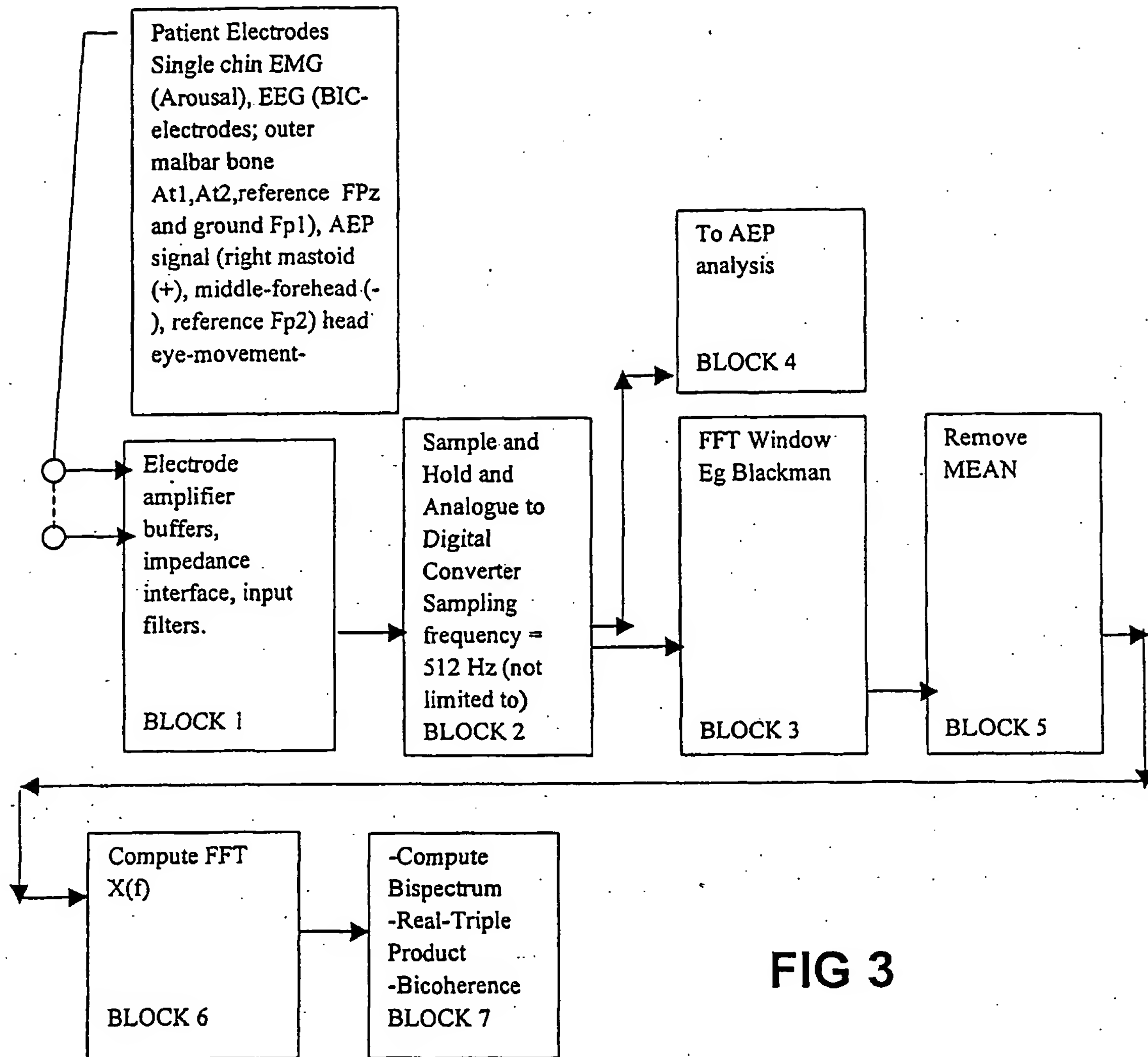


FIG 3

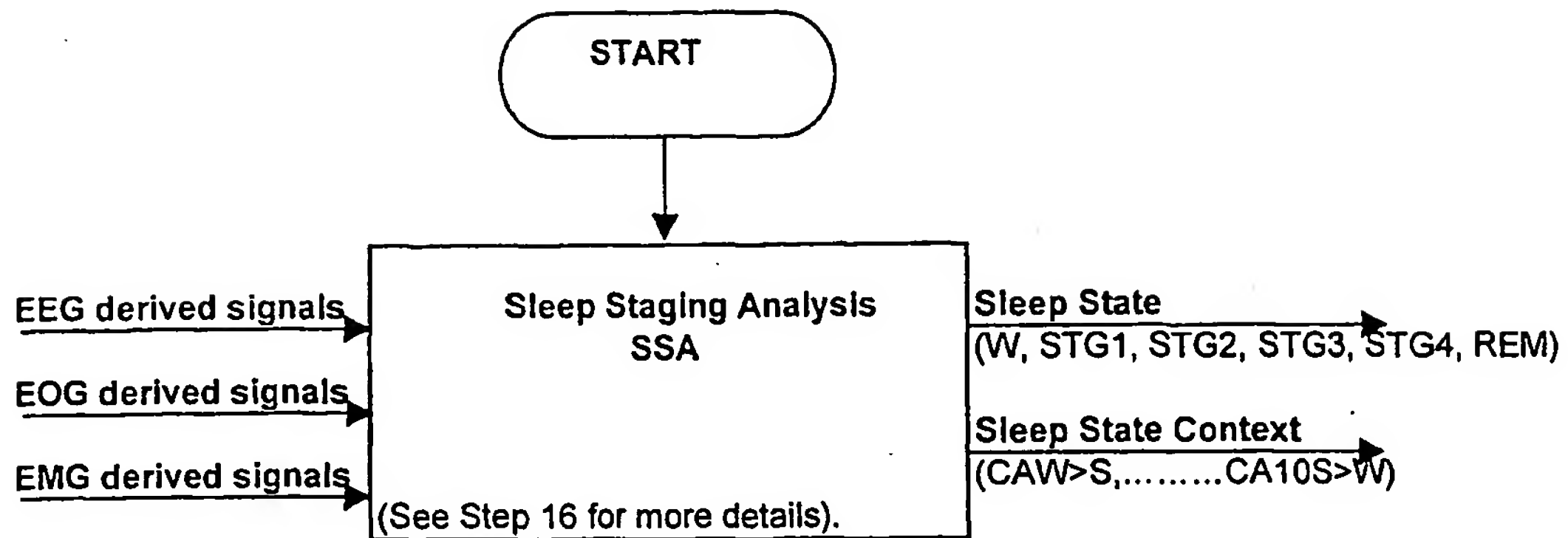


FIG 4

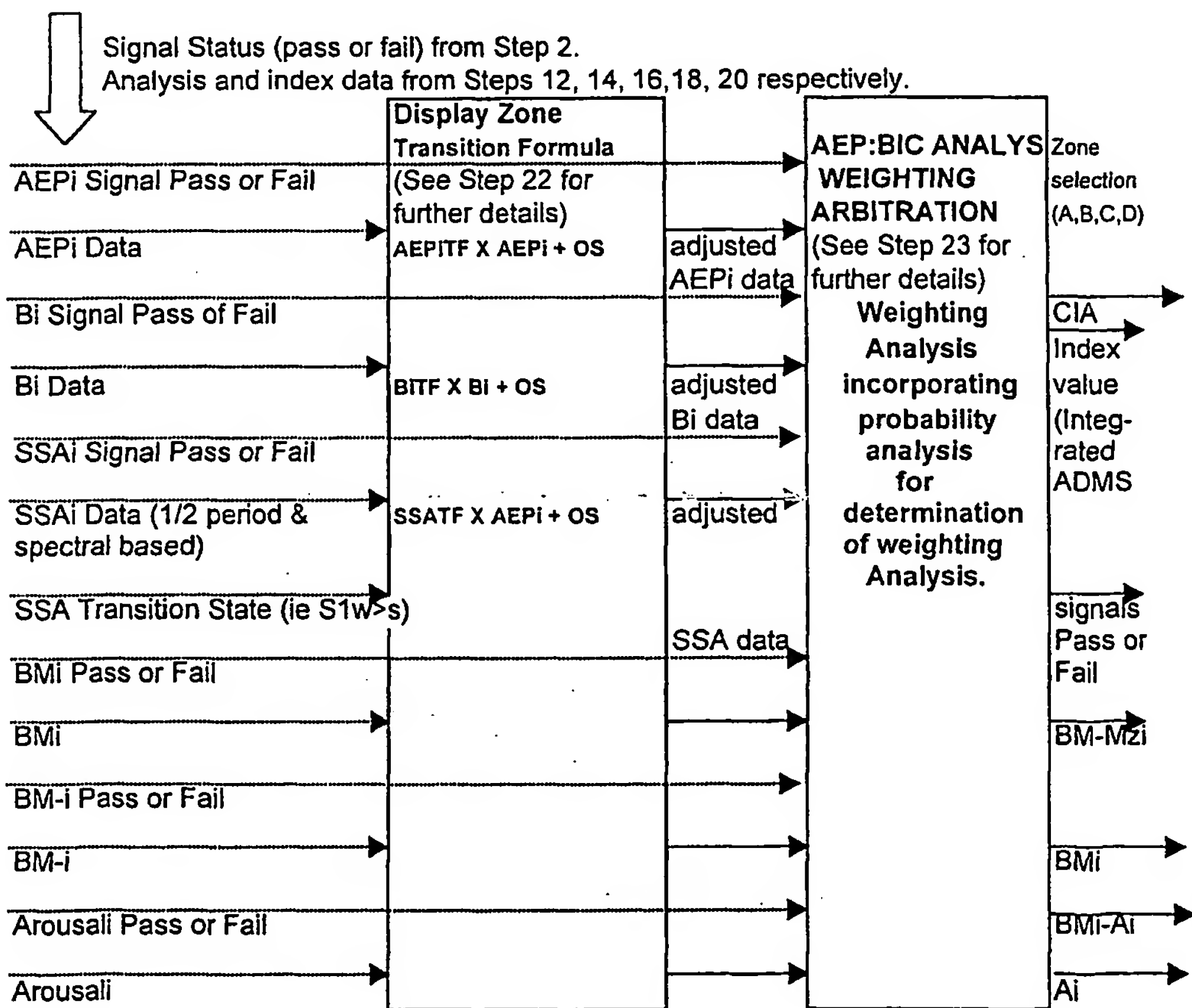


FIG 5

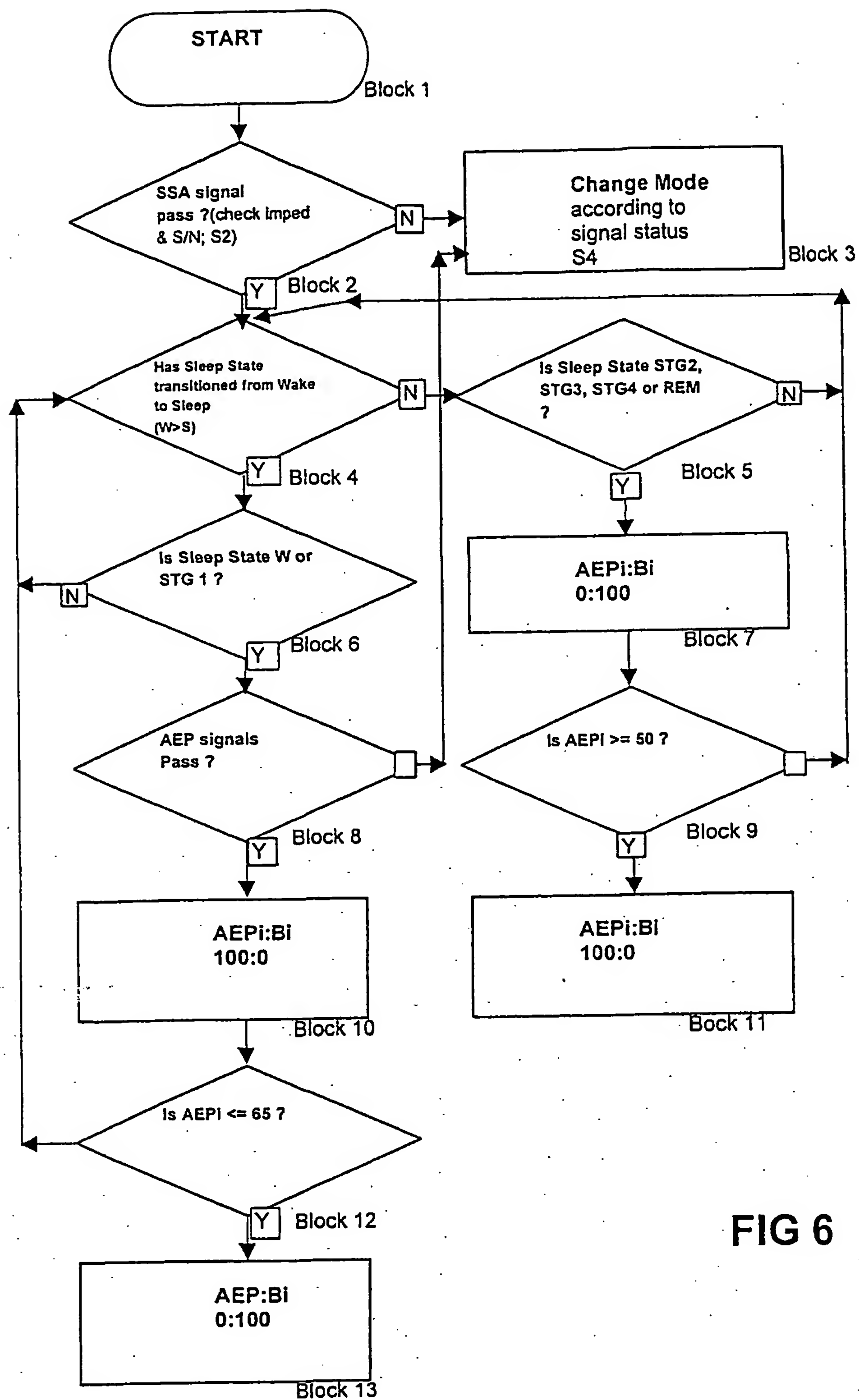
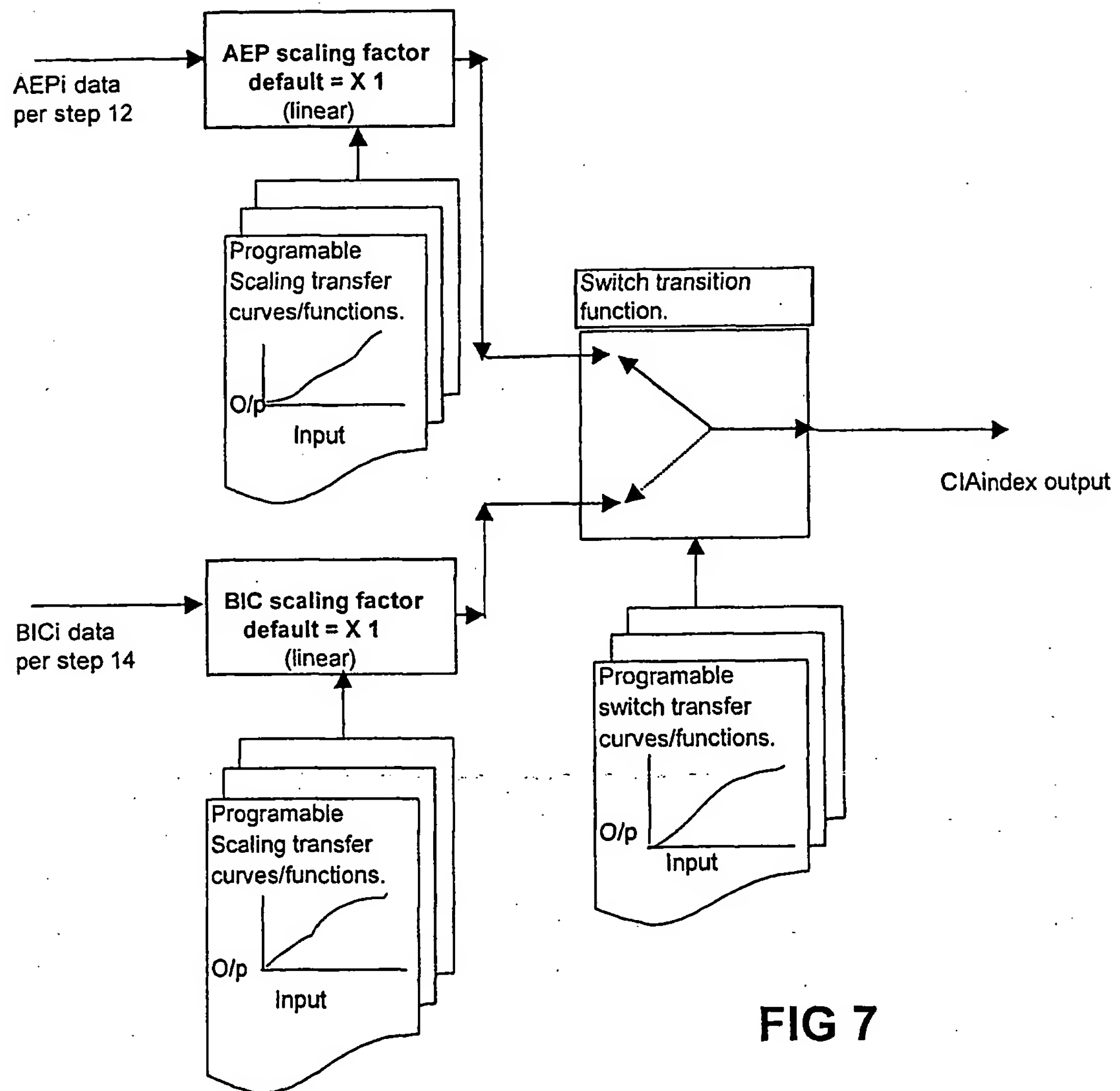


FIG 6



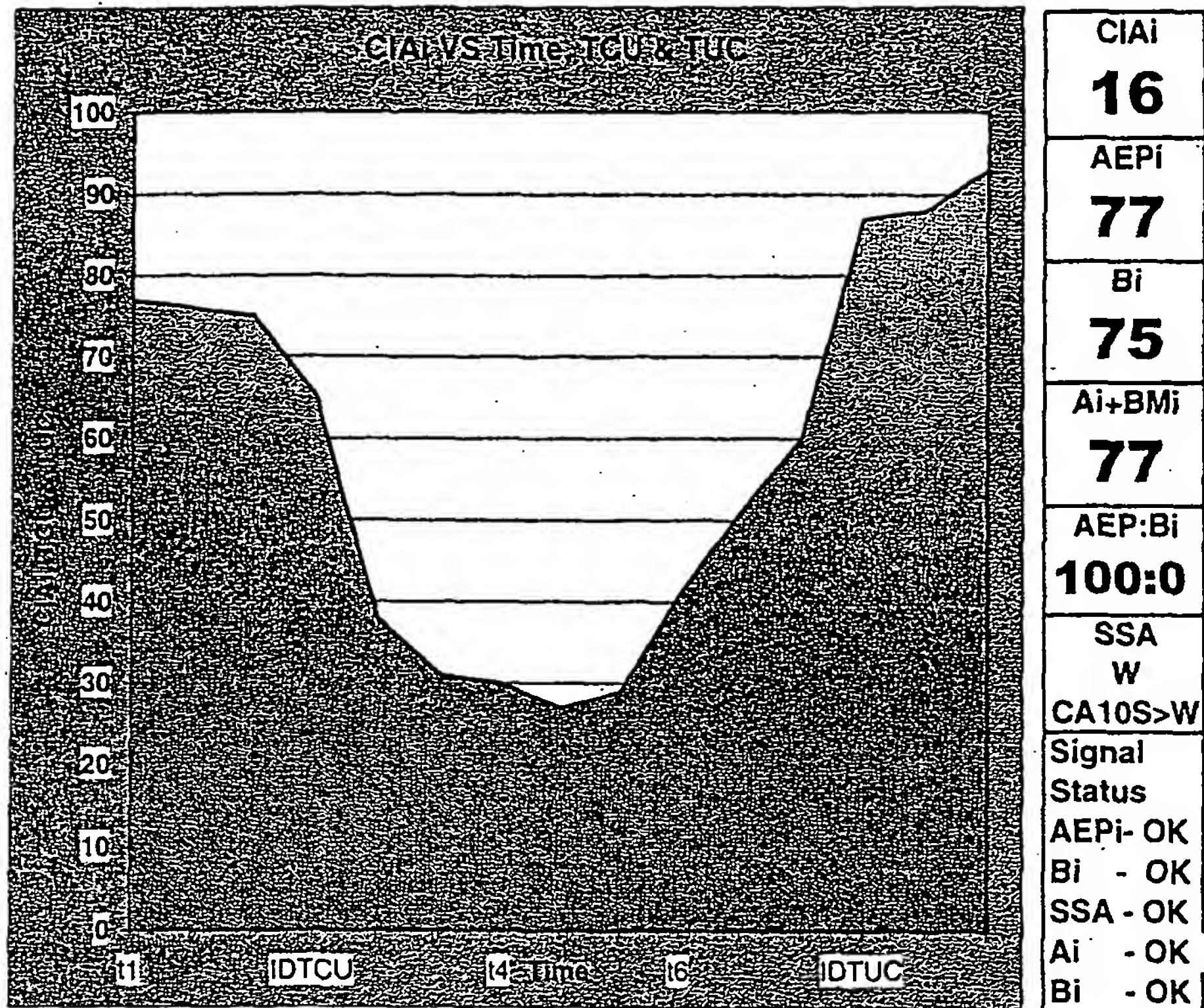


FIG 8

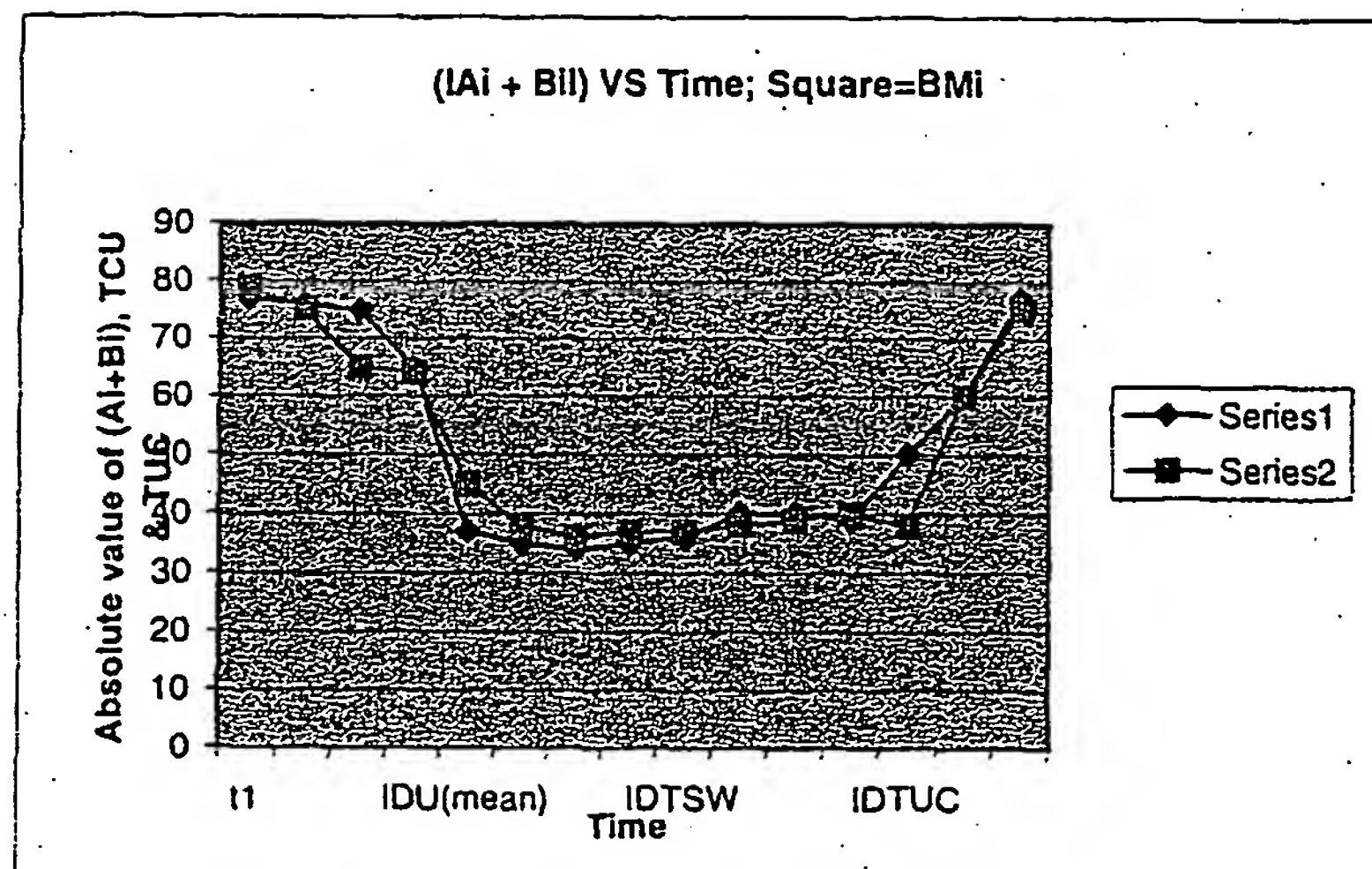
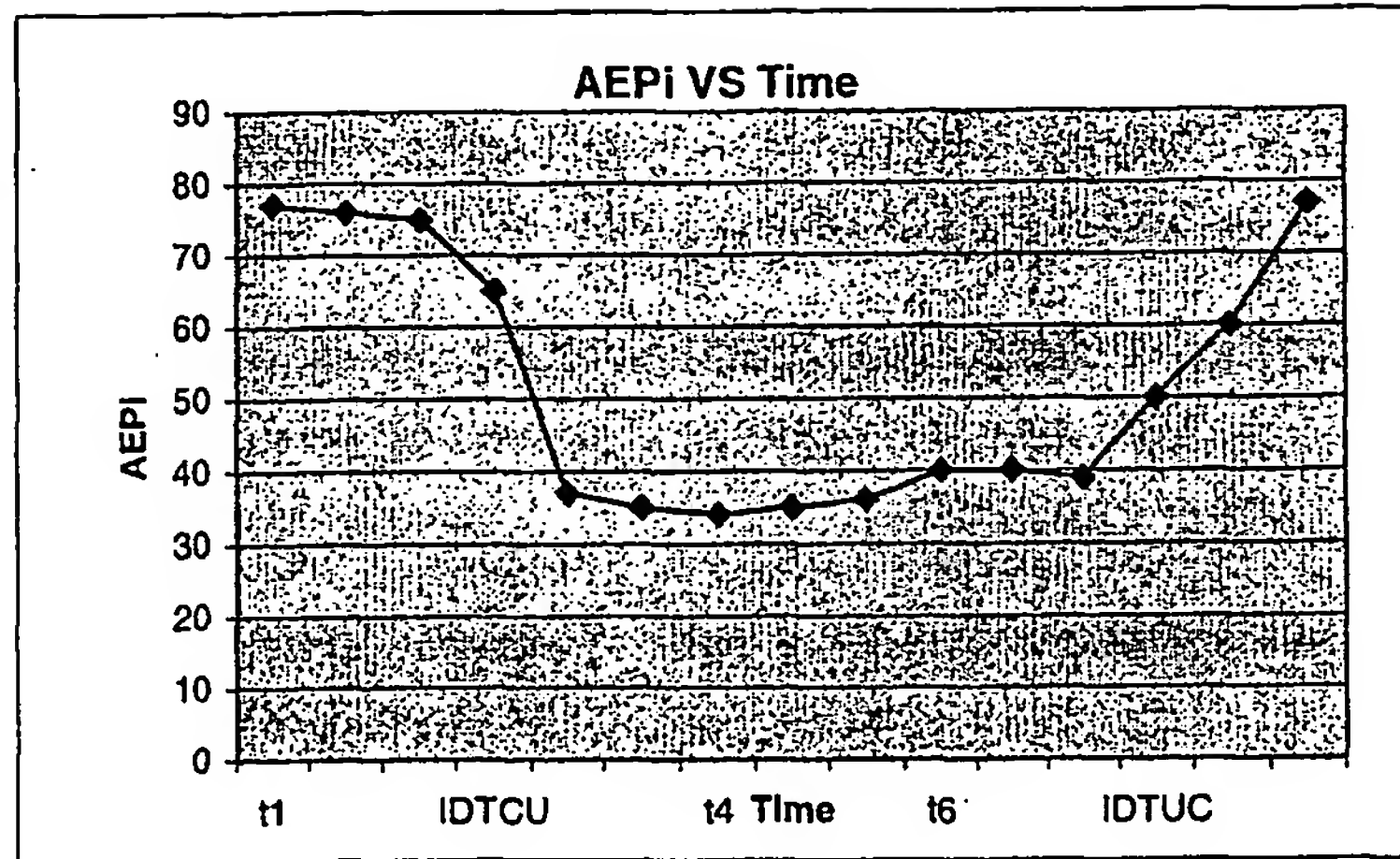
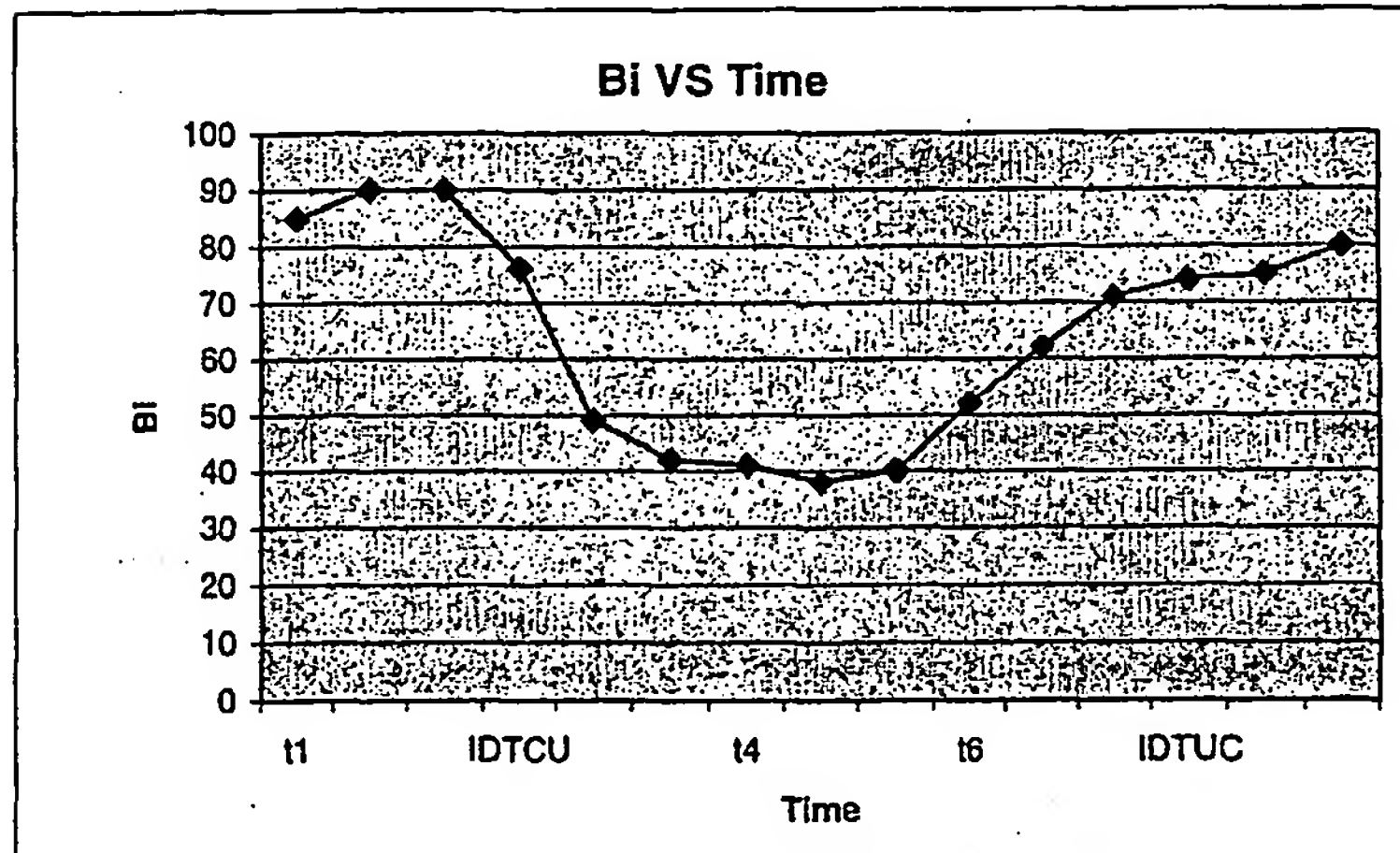


FIG 9



**FIG 10****FIG 11**



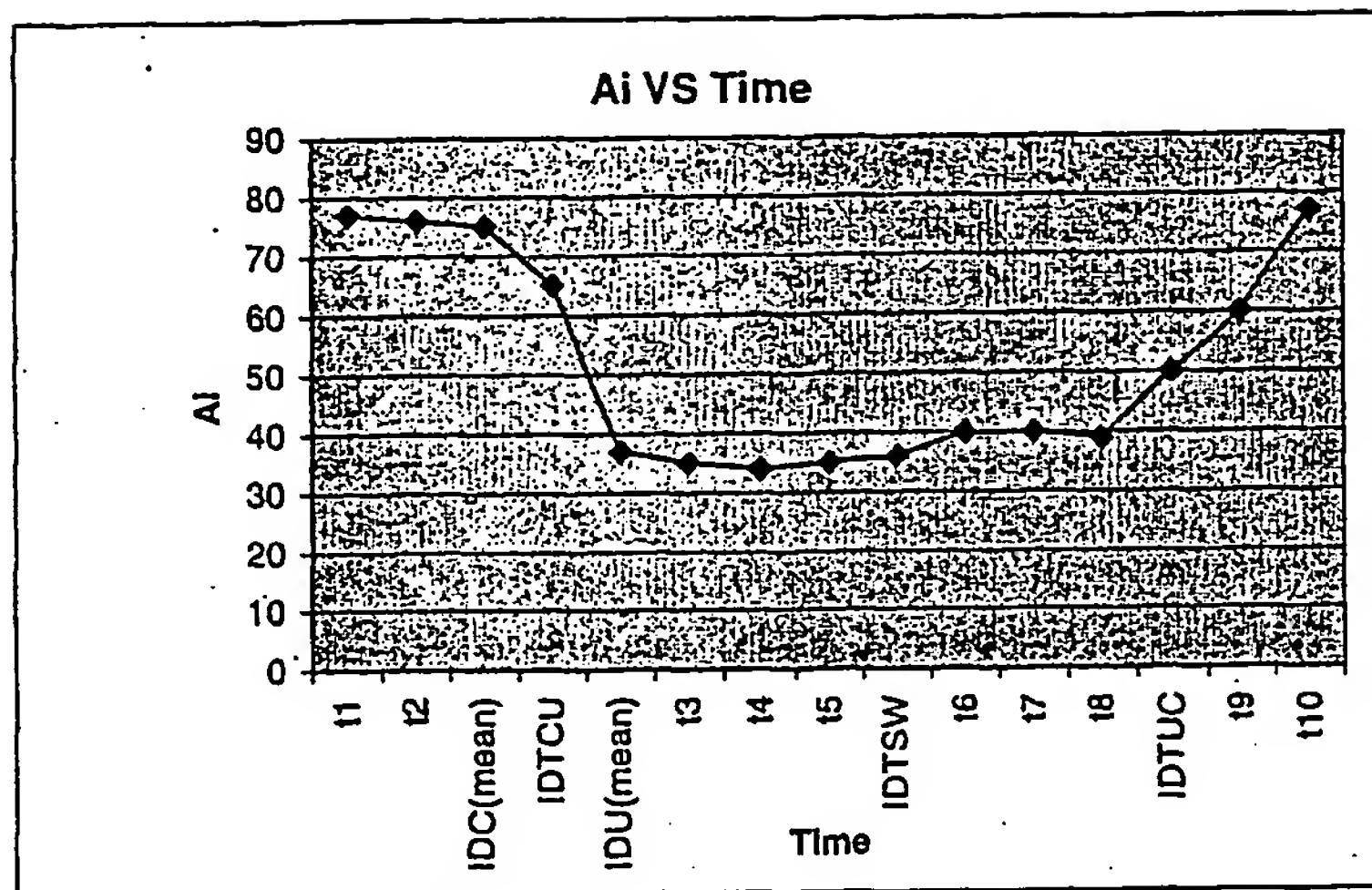


FIG 12

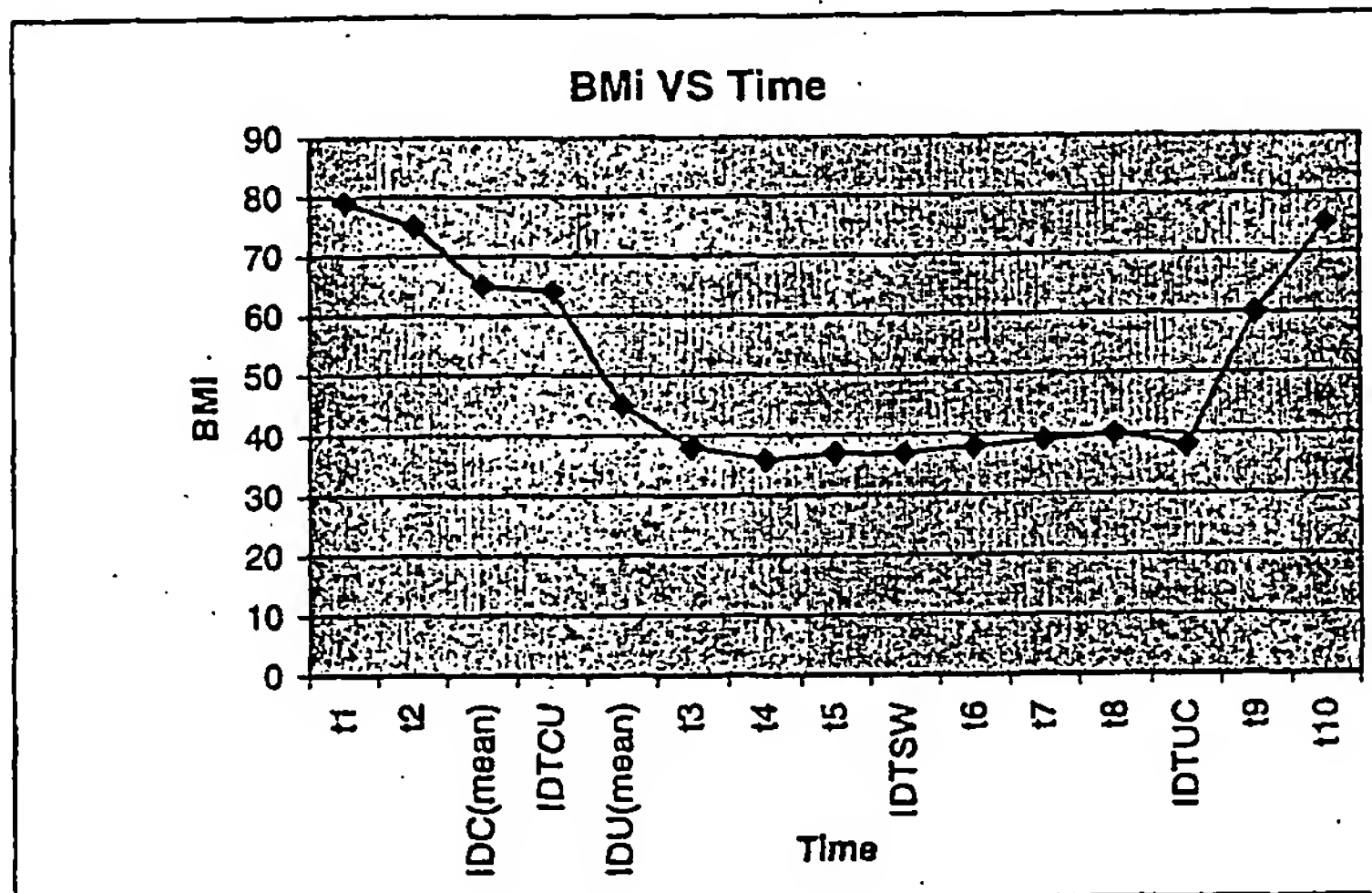


FIG 13

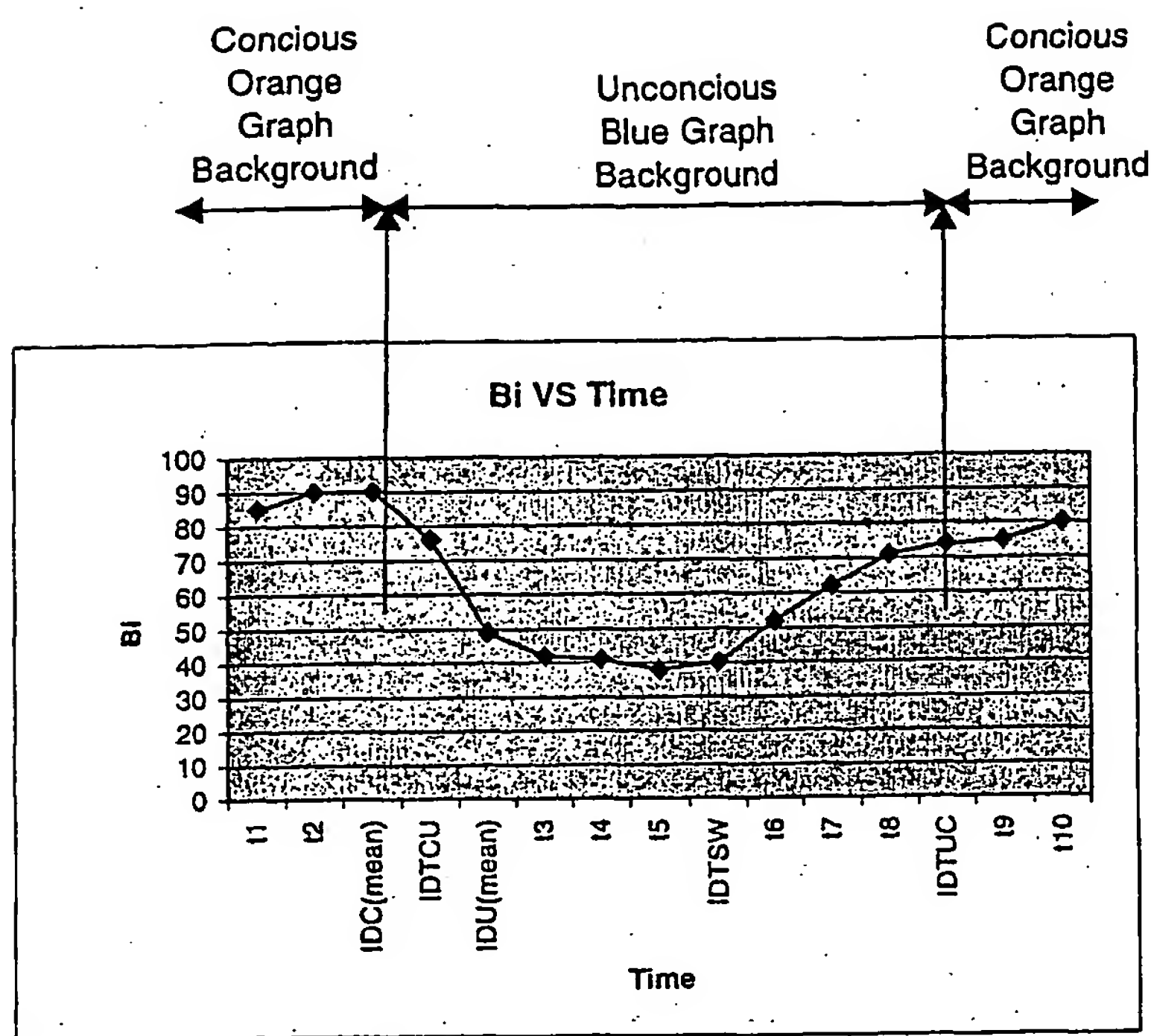


FIG 14

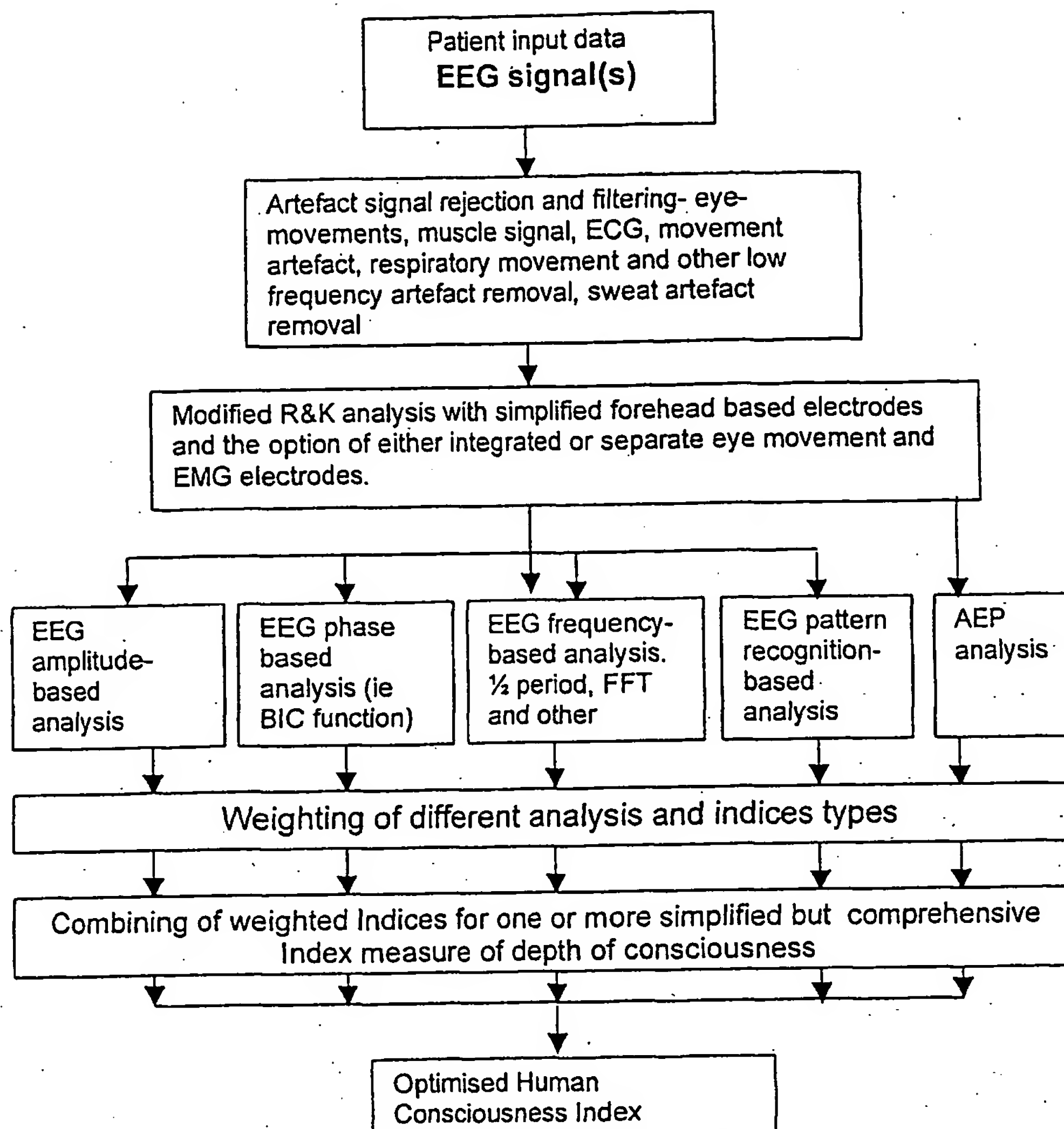


FIG 15

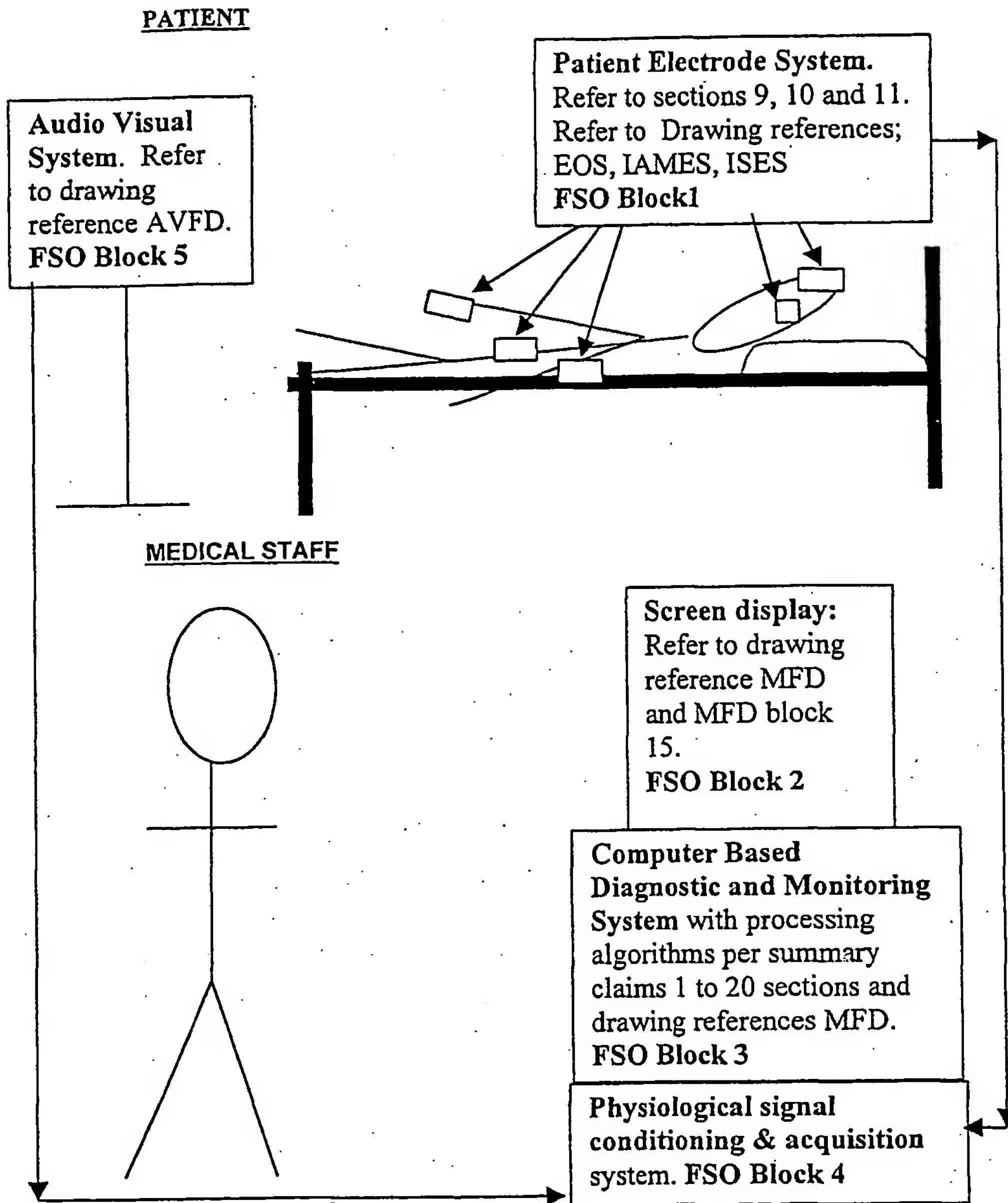


FIG 16

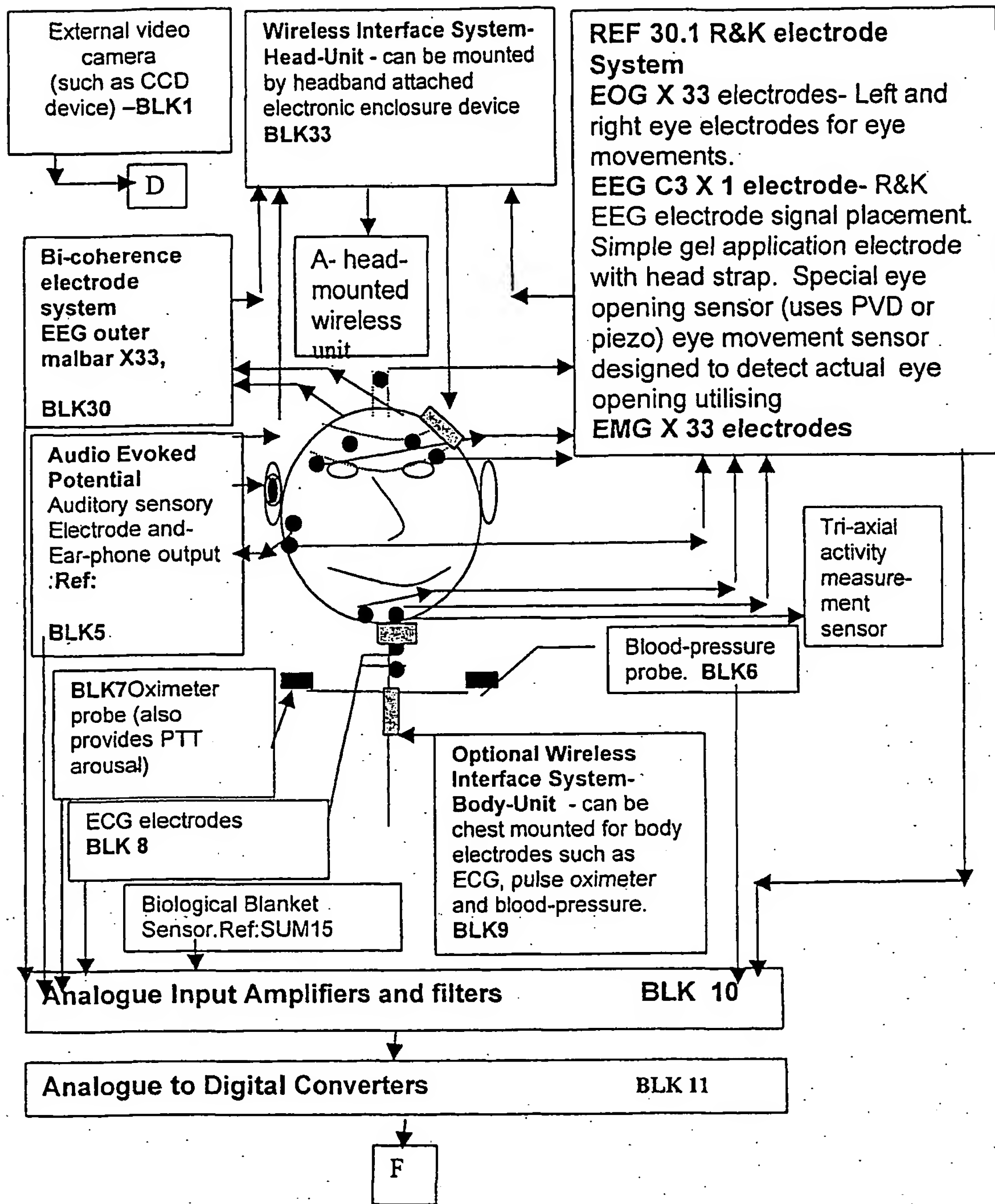


FIG 17

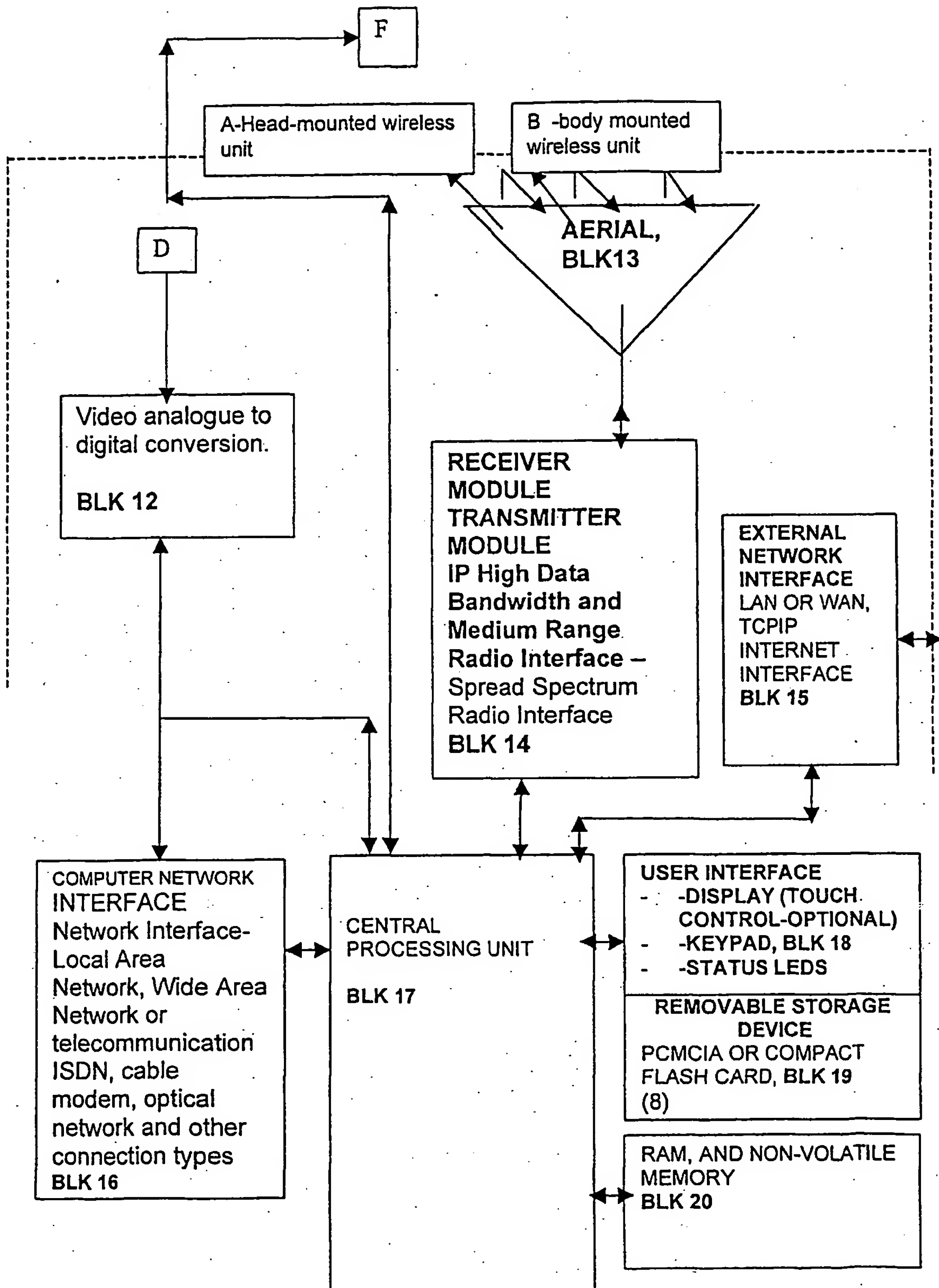


FIG 17 (cont)

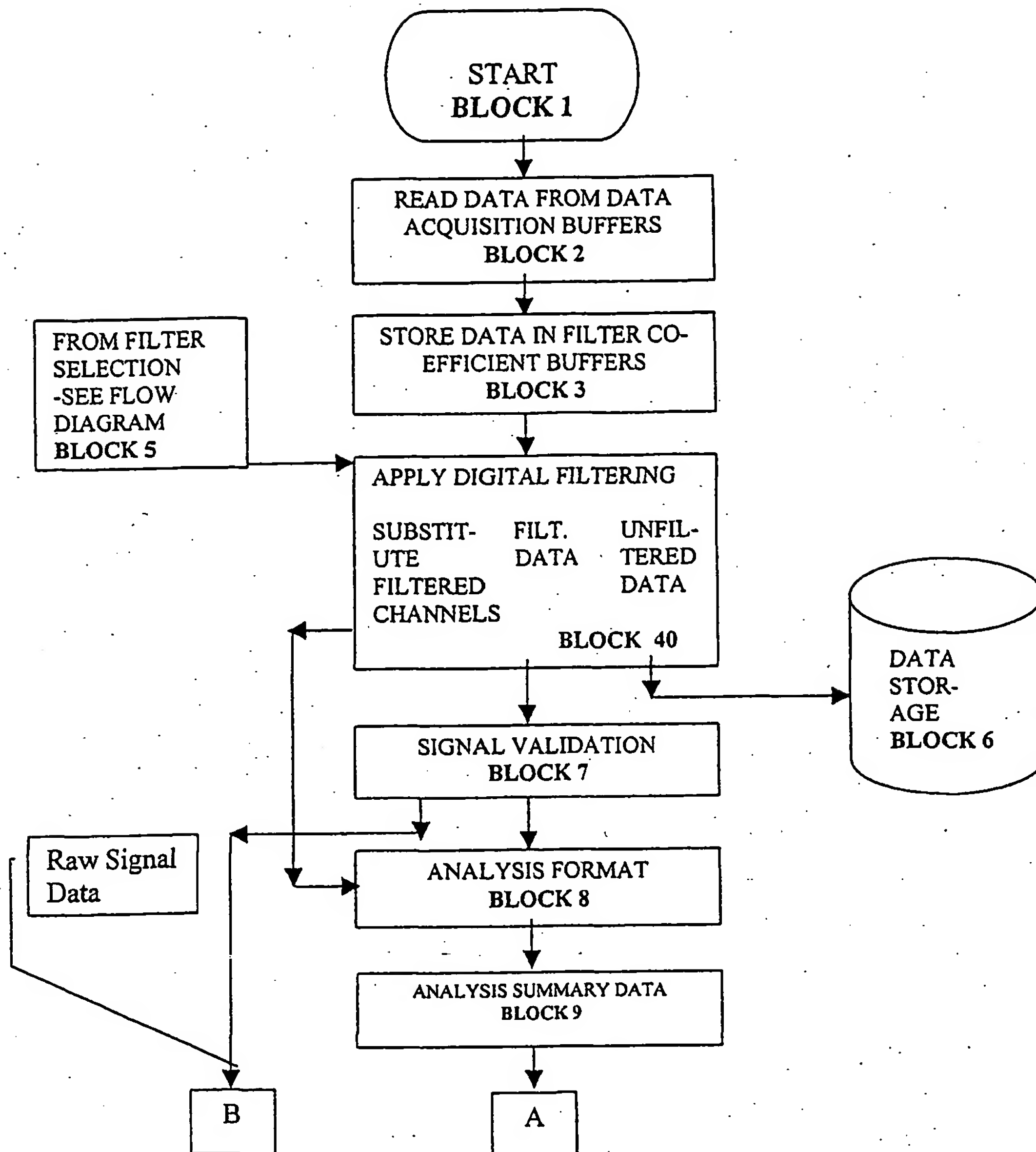


FIG 18



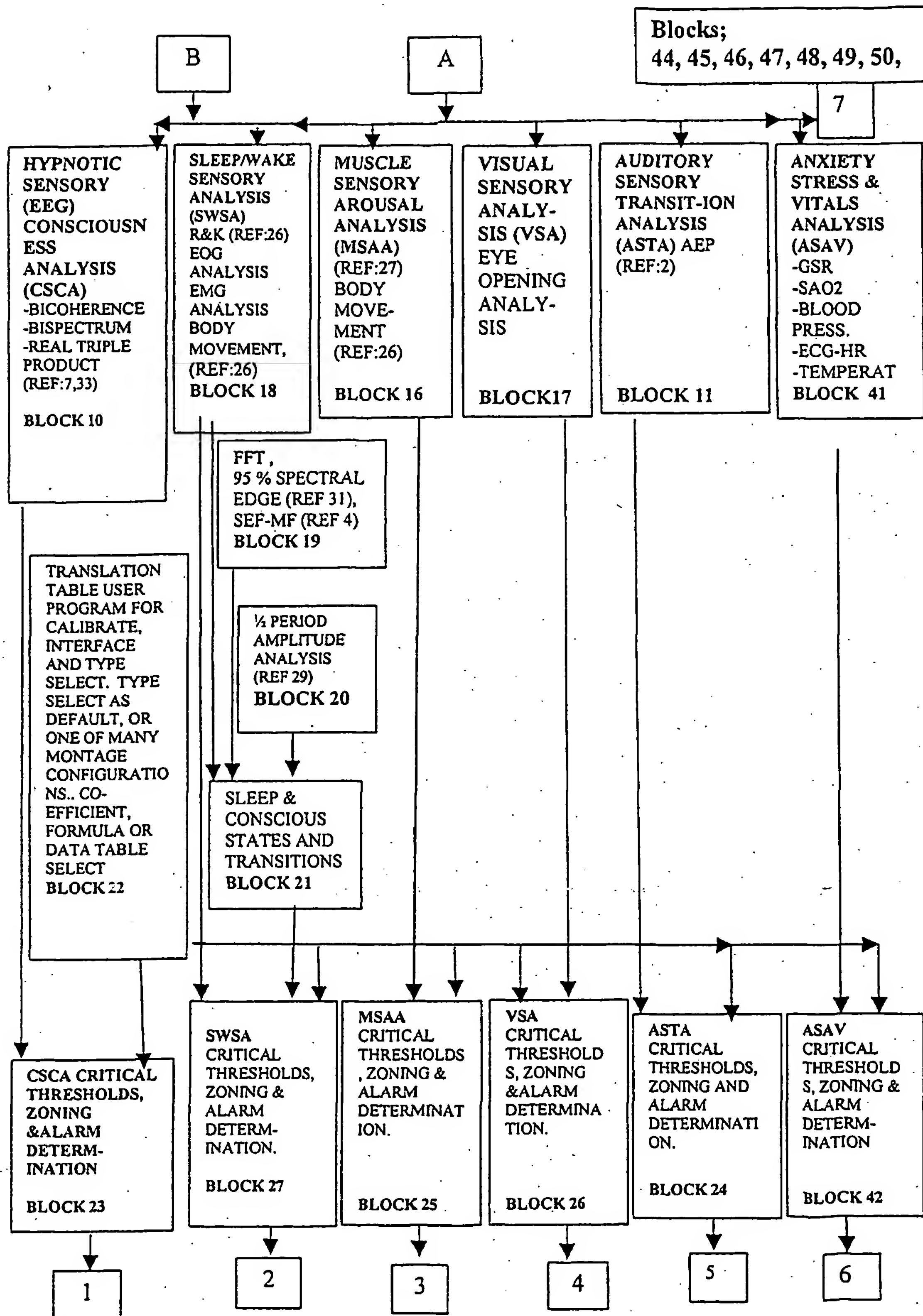


FIG 18 (cont)(i)

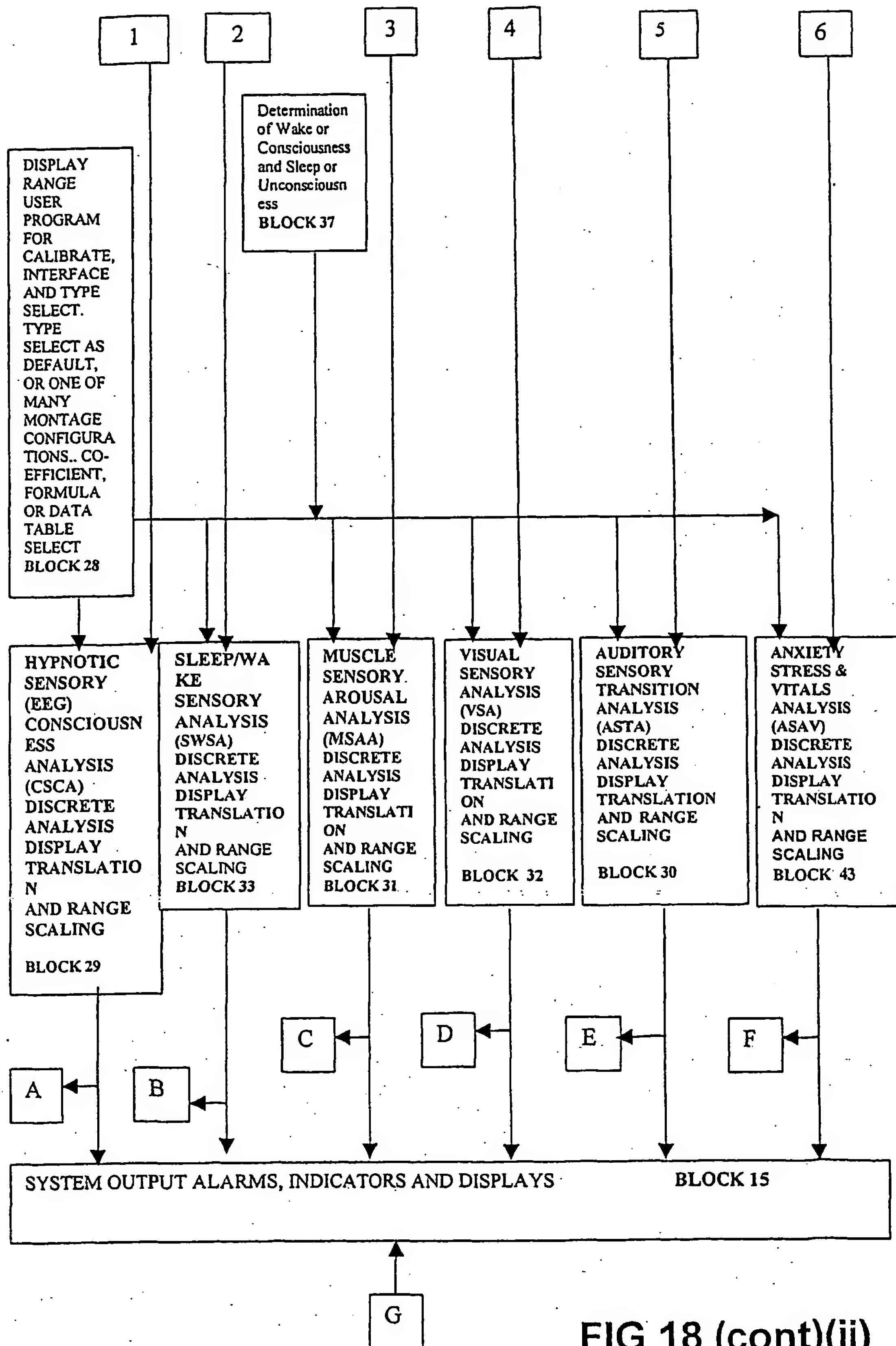


FIG 18 (cont)(ii)

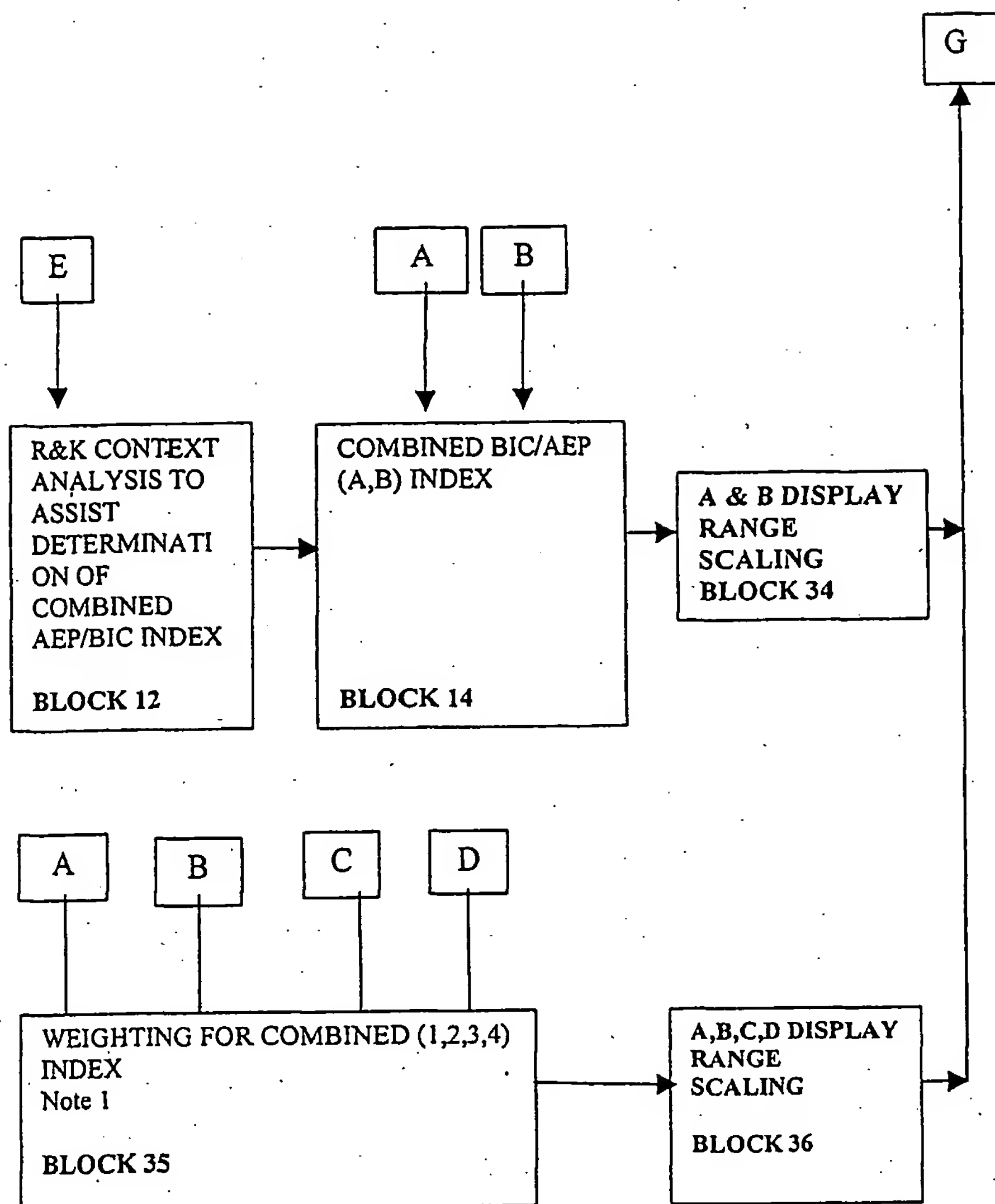
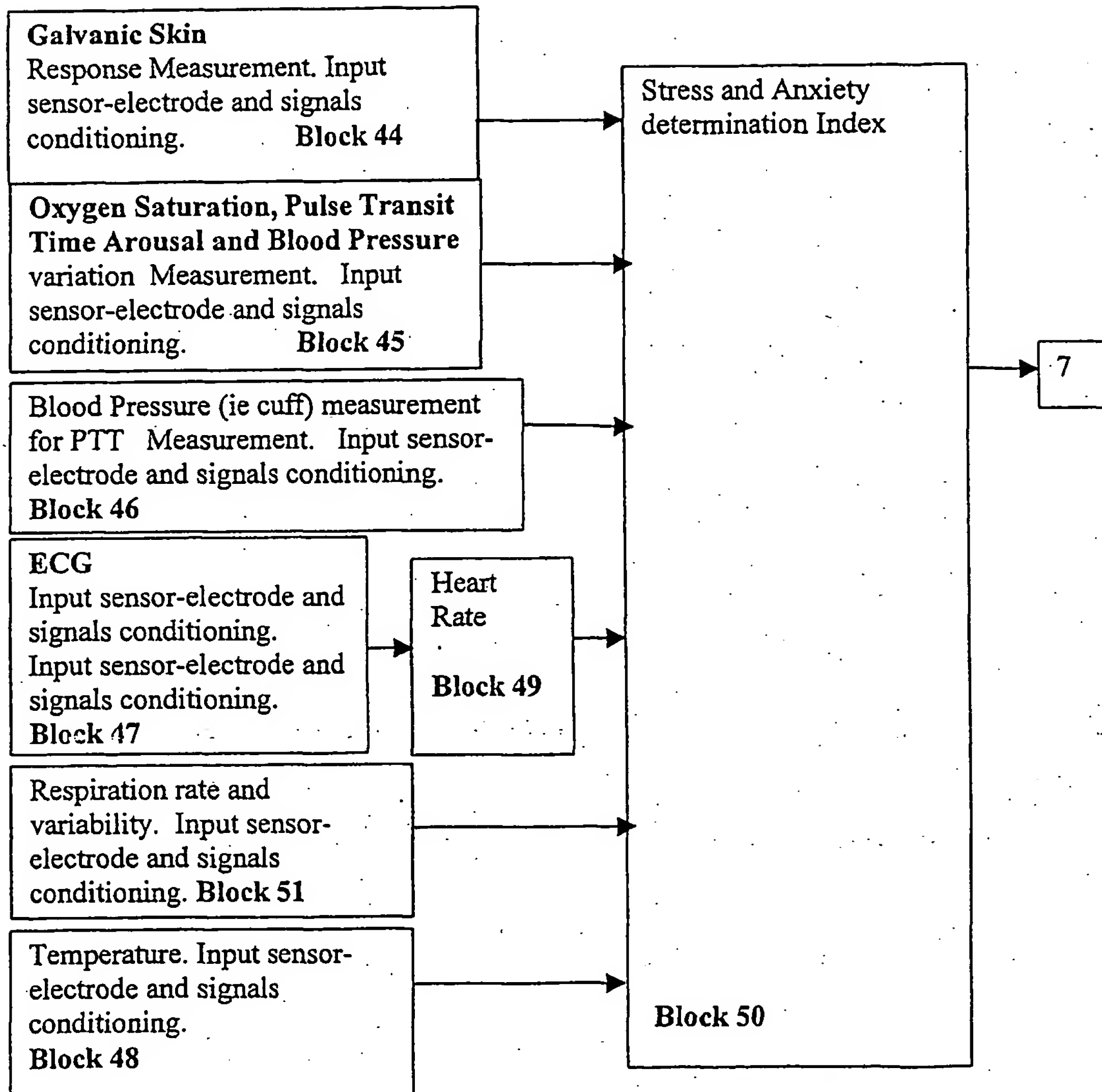


FIG 18 (cont)(iii)



**FIG 18 (cont)(iv)**

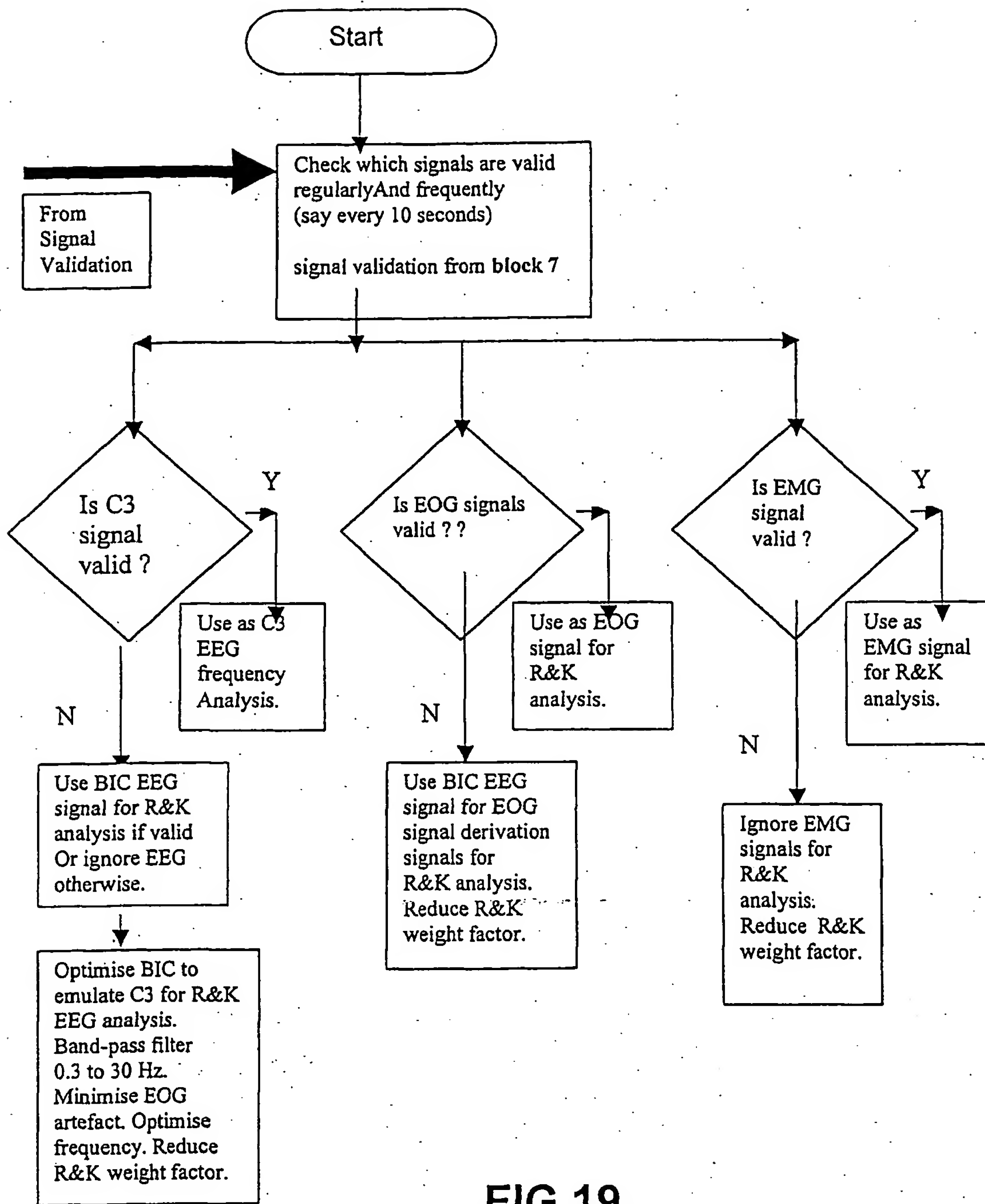


FIG 19

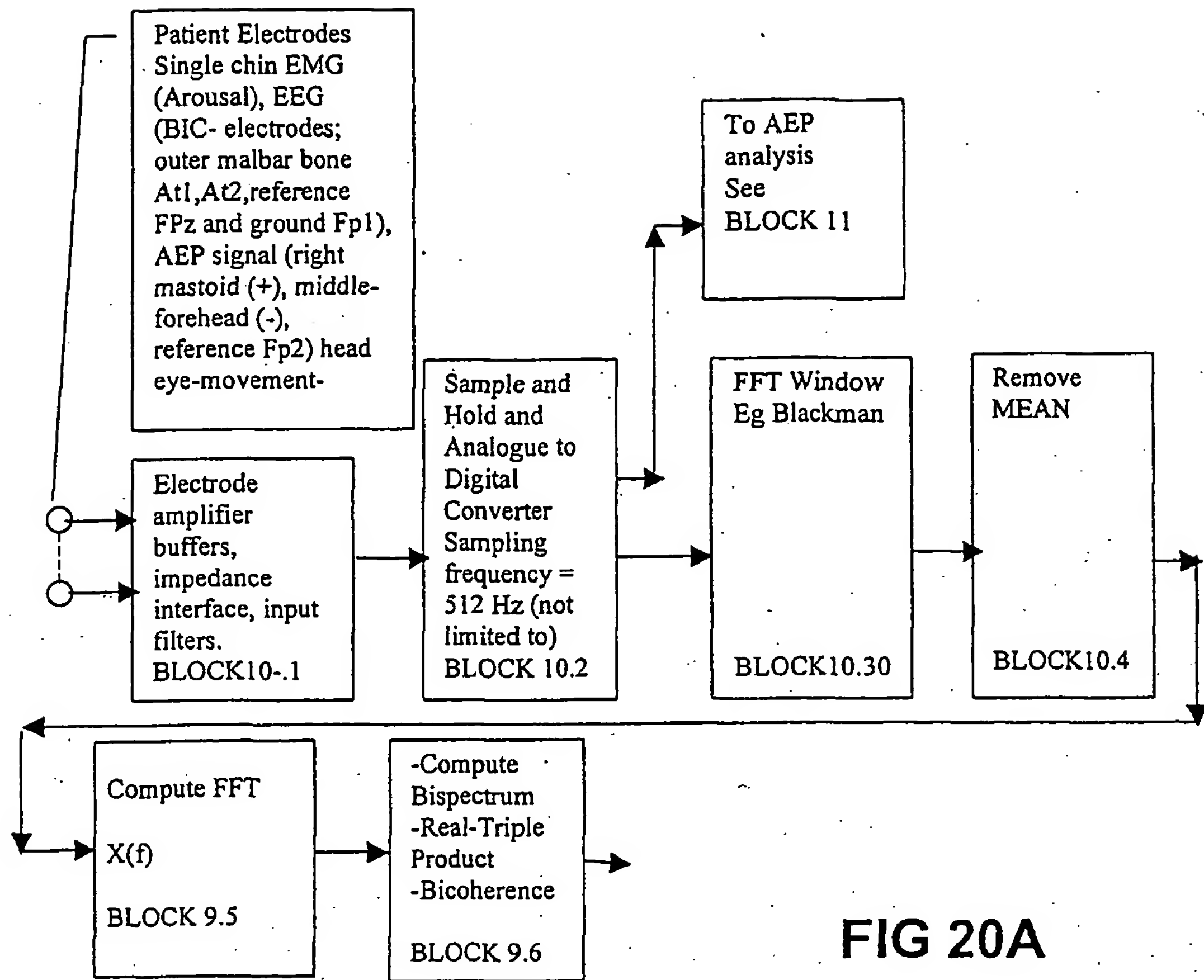


FIG 20A

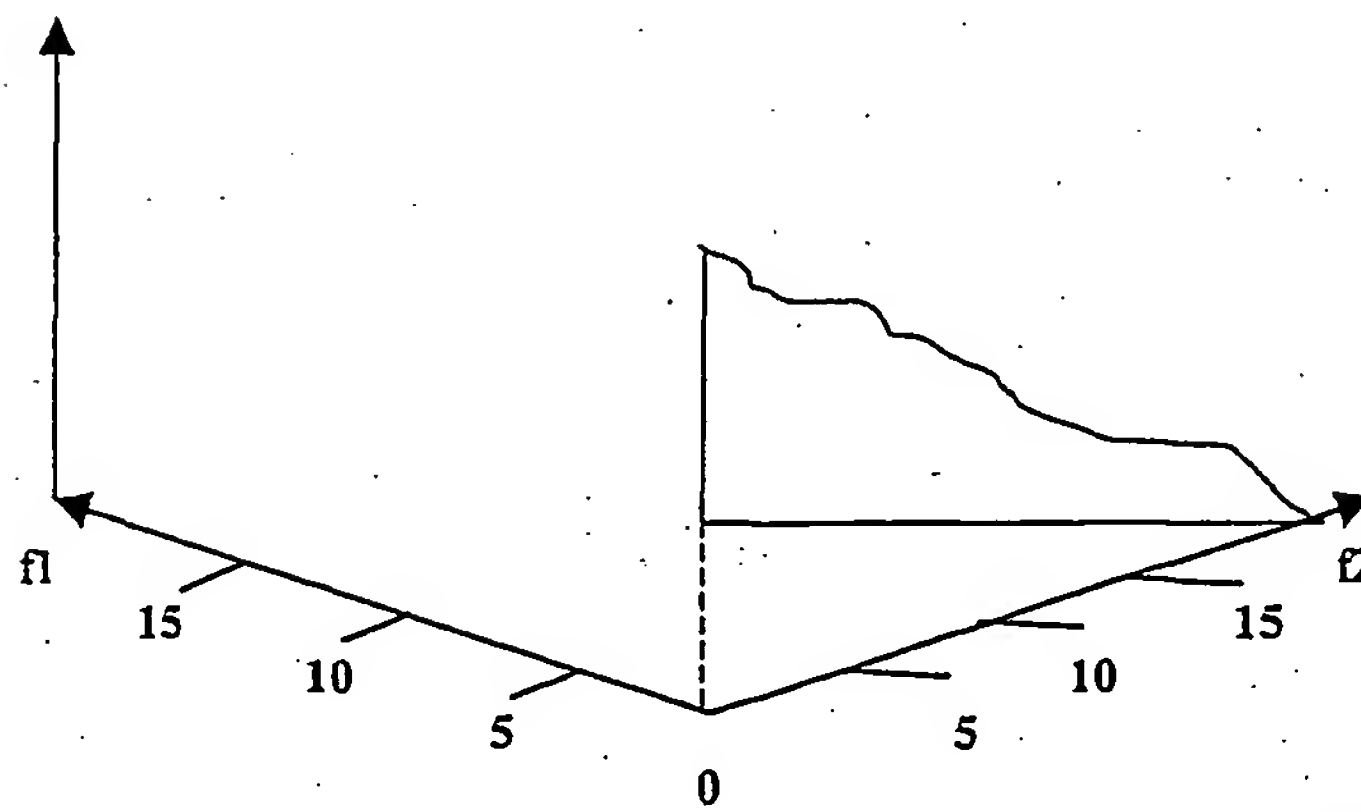
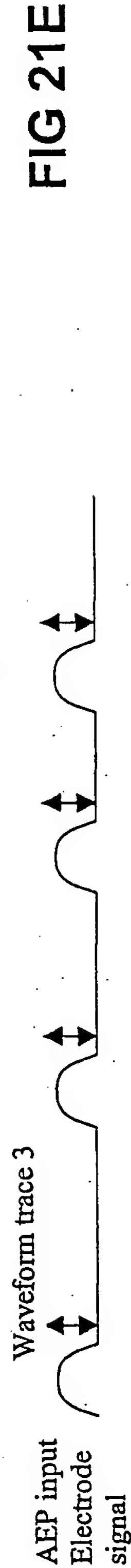
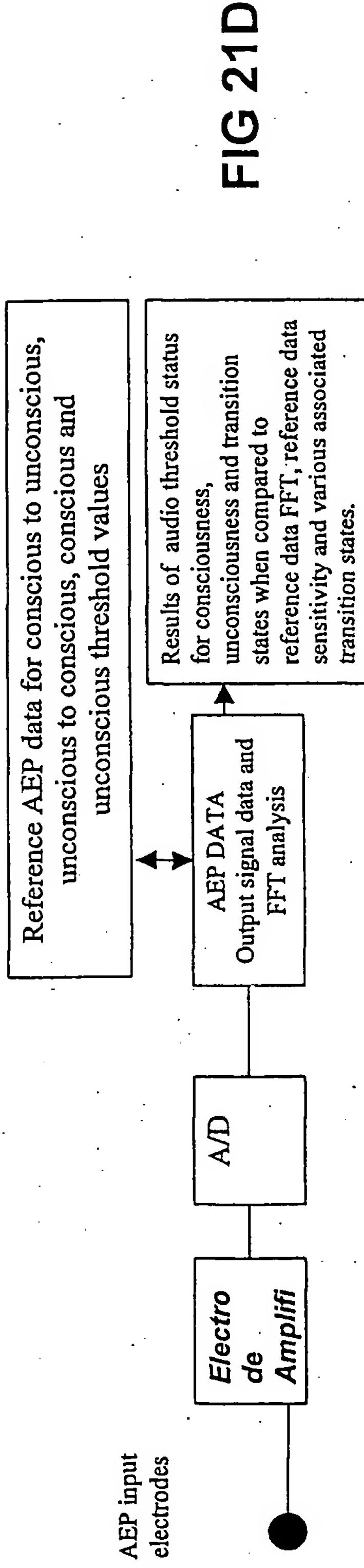
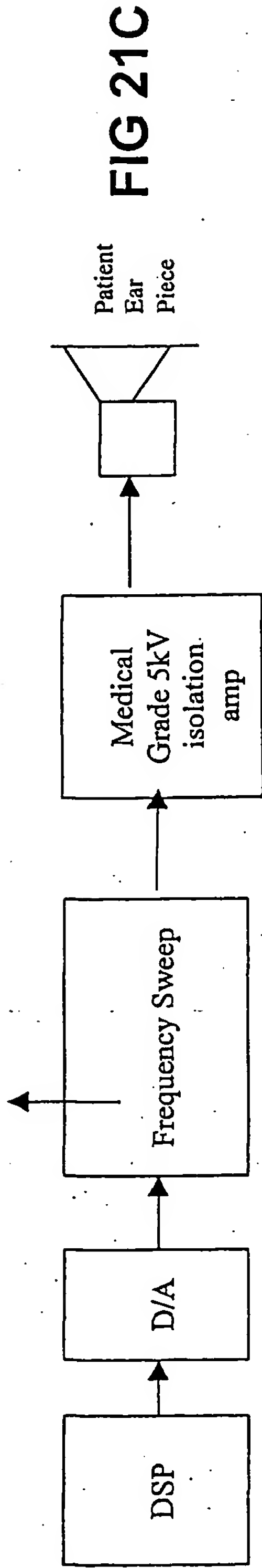
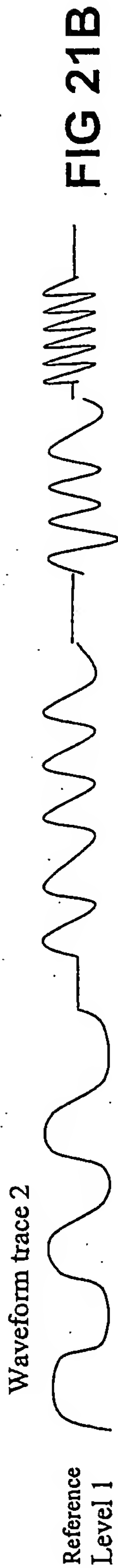
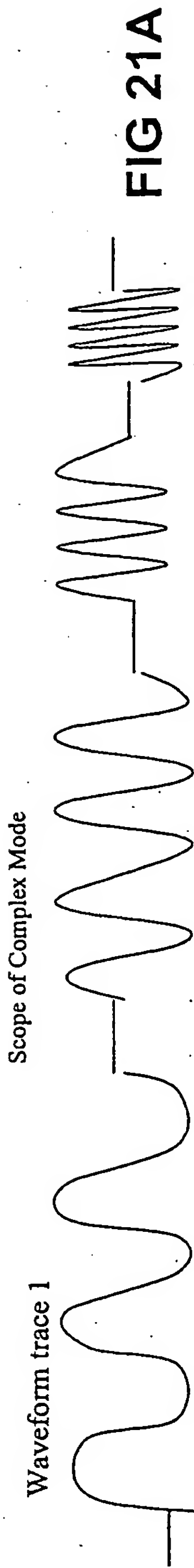


FIG 20B





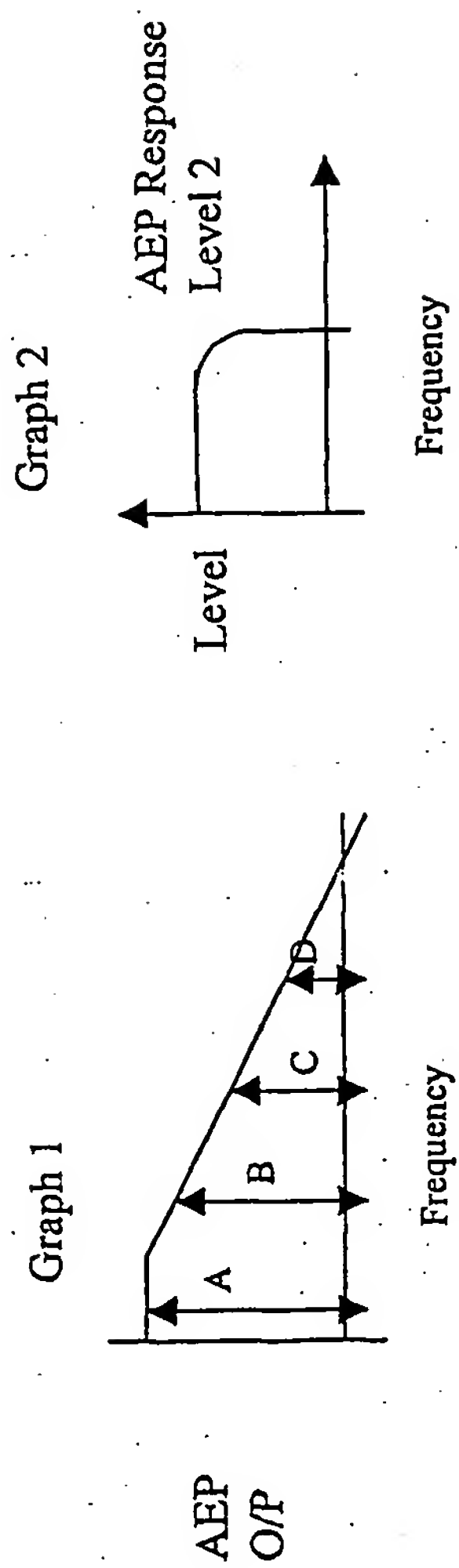


FIG 21G

FIG 21F

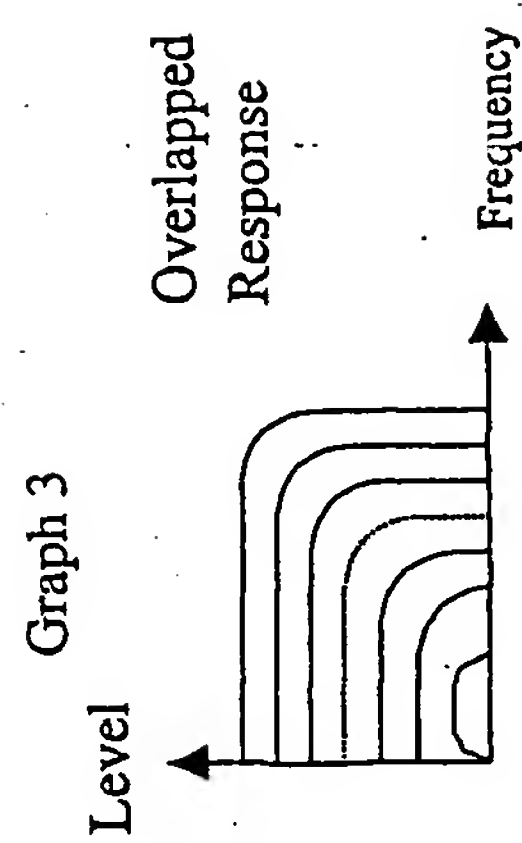


FIG 21H

Context Analysis Method

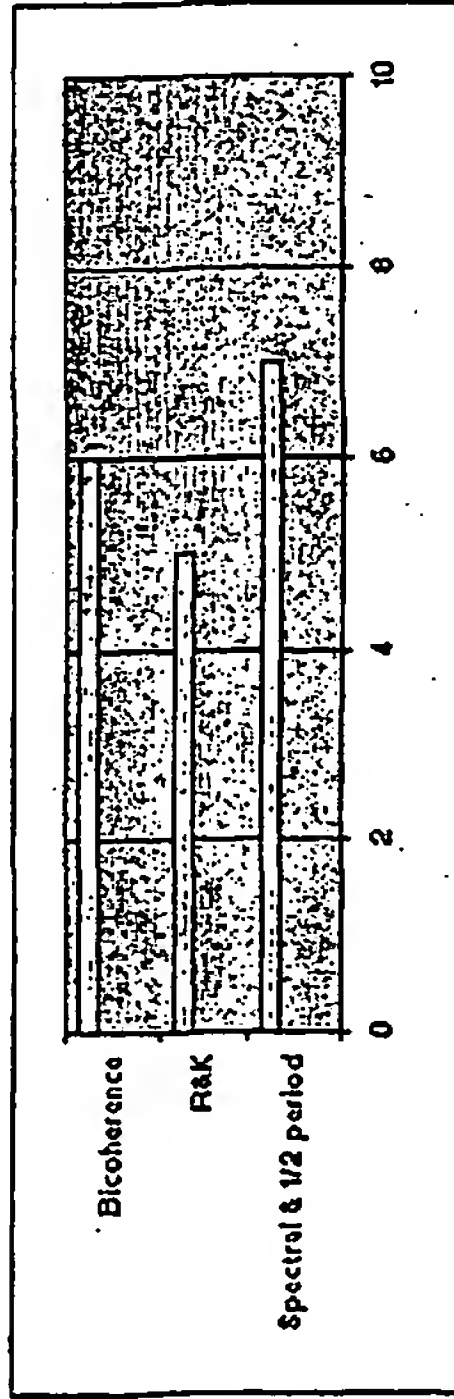


FIG 22A

Transition Analysis Method

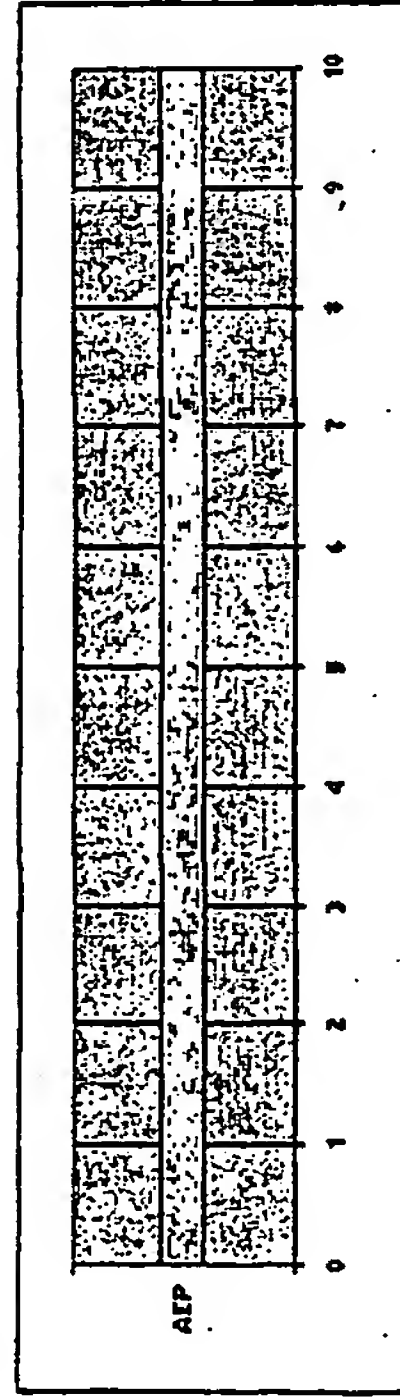


FIG 22C

Movement Analysis Method

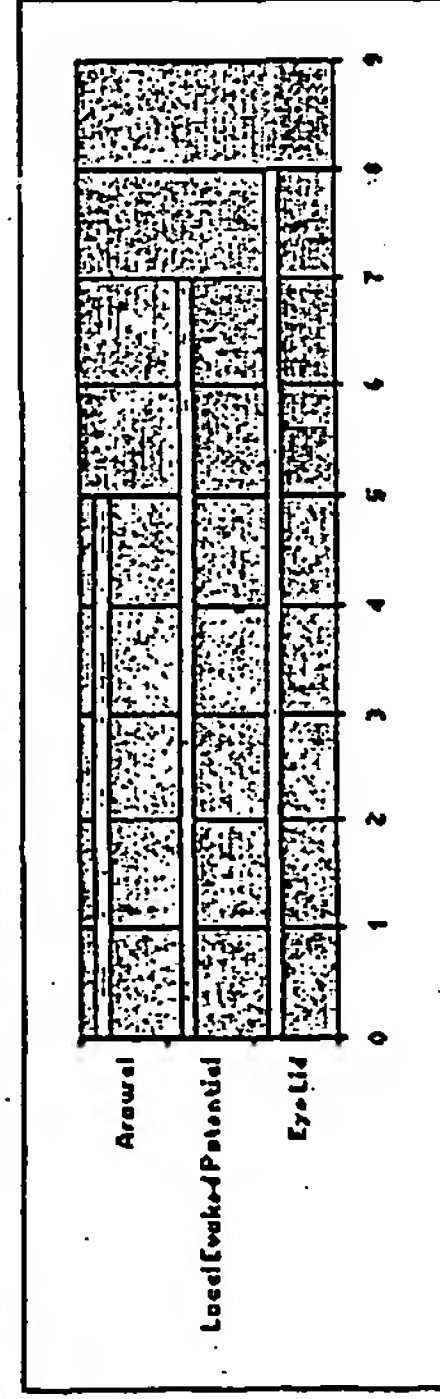


FIG 22E

Context Analysis Probability

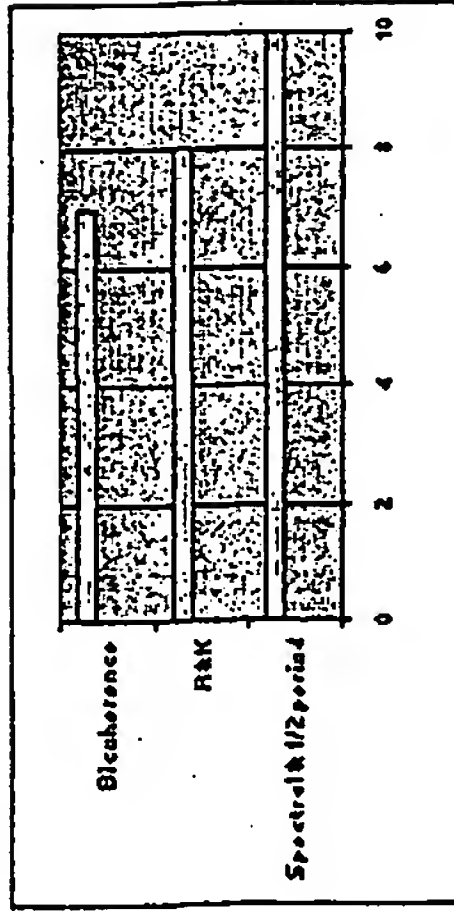


FIG 22B

Transition Analysis Probability

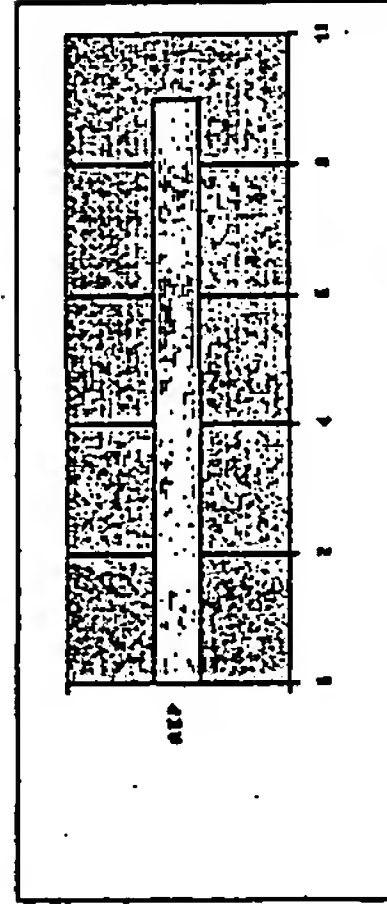


FIG 22D

Movement Analysis Probability

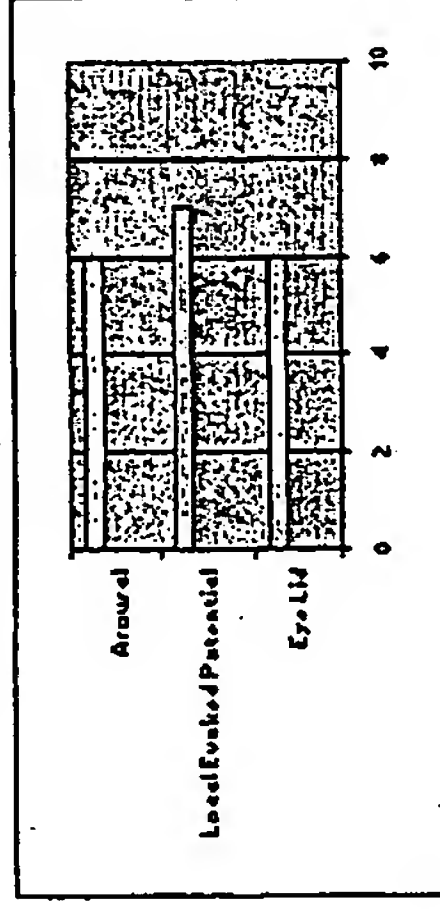


FIG 22F

Validate

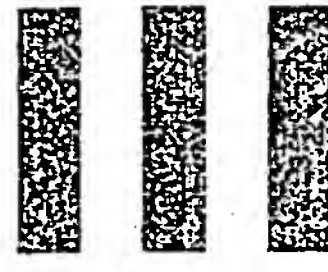


FIG 22a

Validate

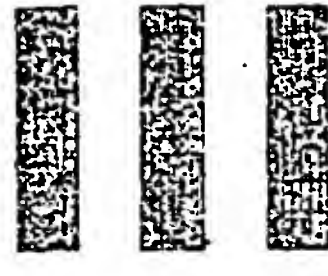


FIG 22b



FIG 22c



FIG 22d



FIG 22e

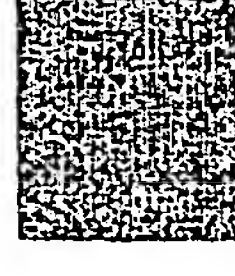
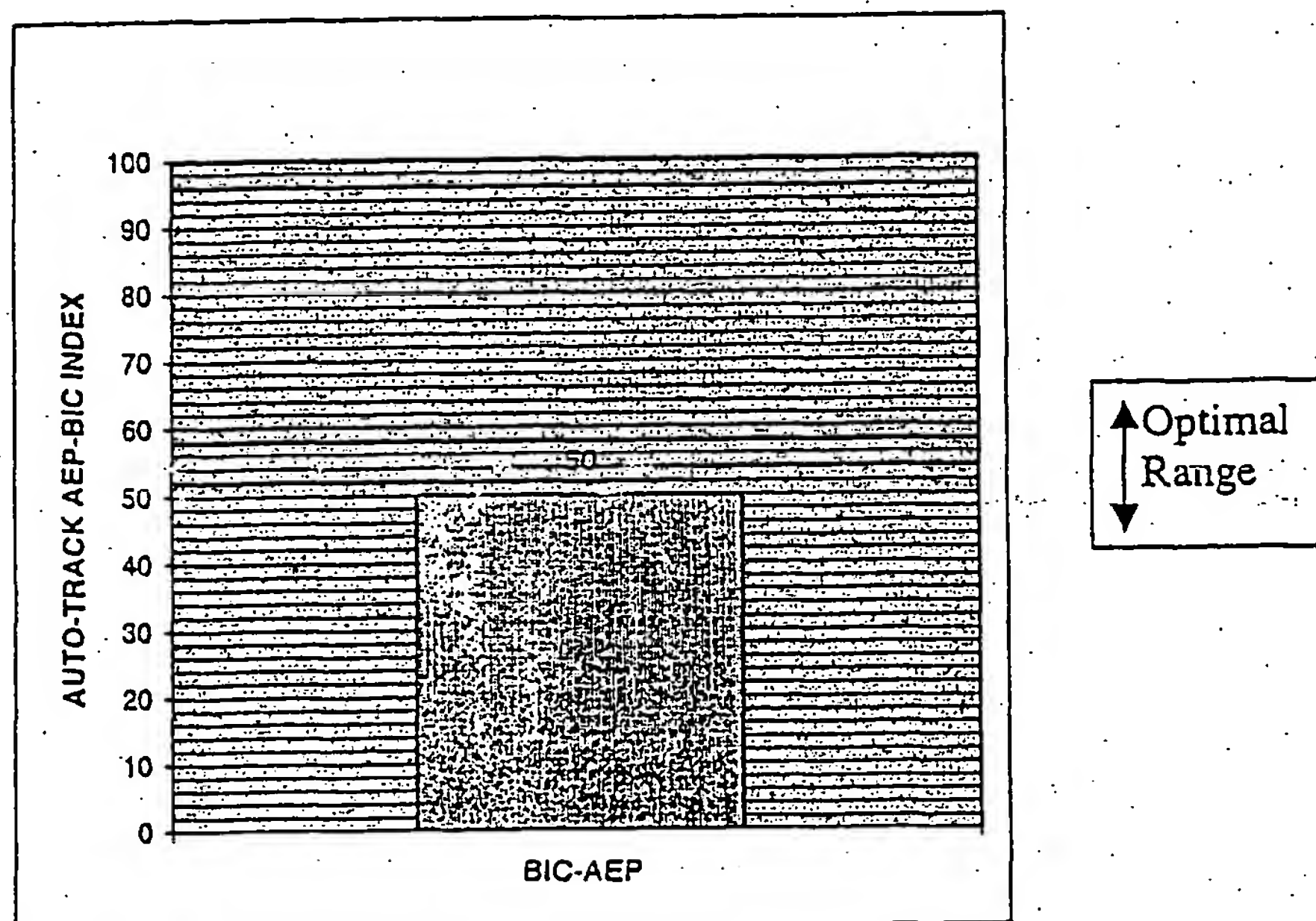
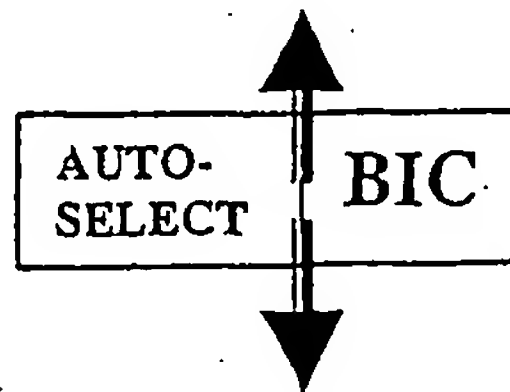
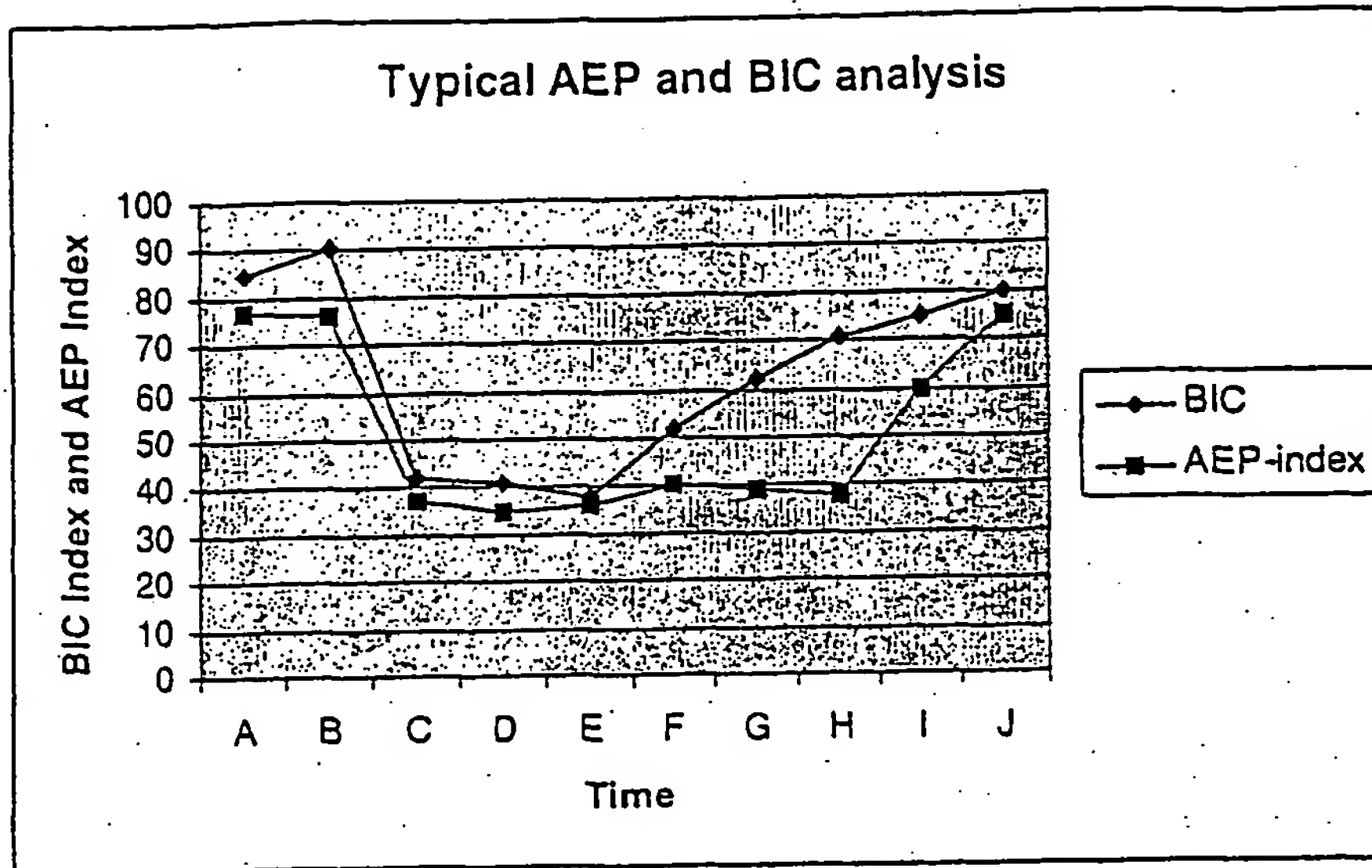


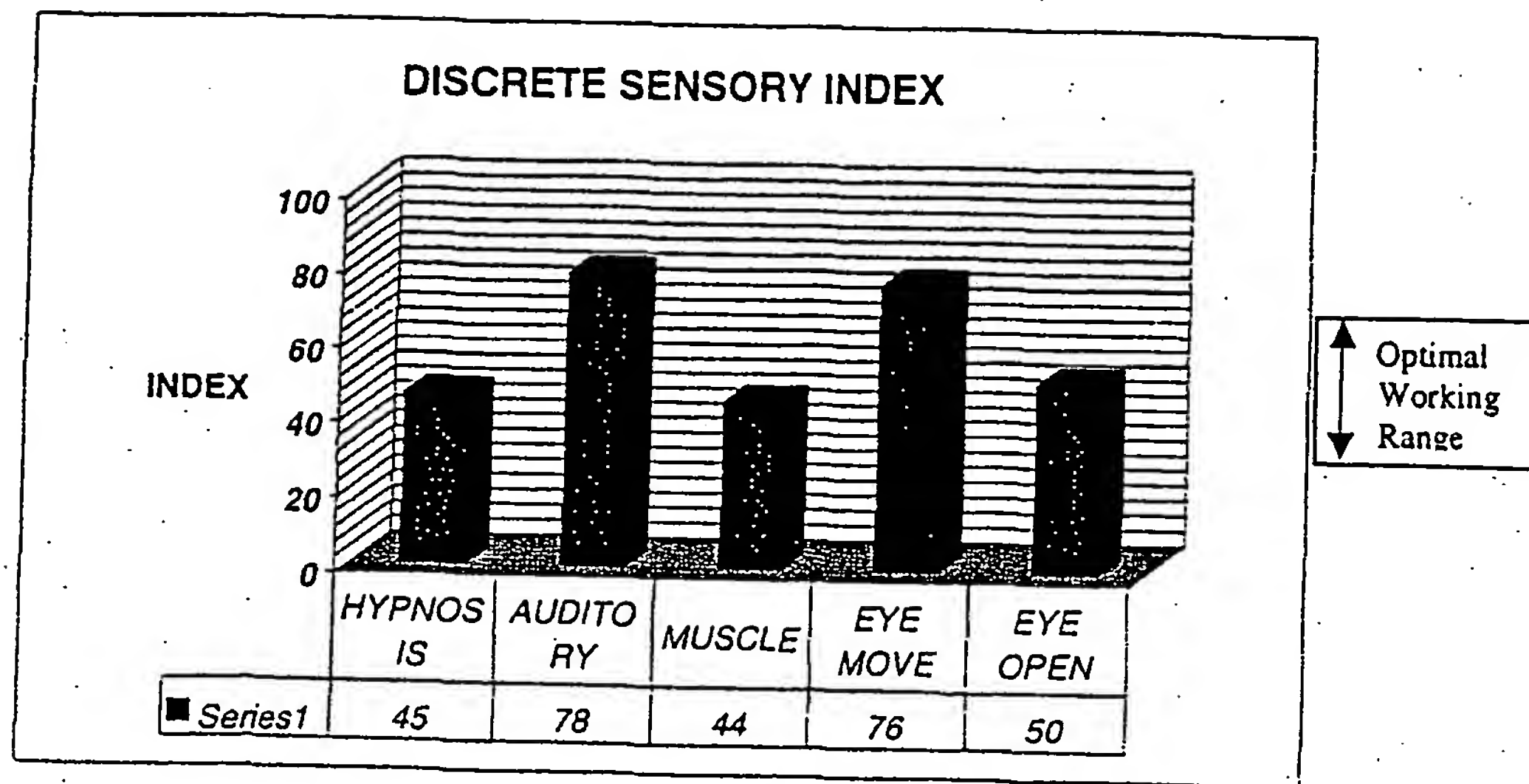
FIG 22f

VALUE

HIGH-RED  
OPTIMAL-GREEN  
LOW-ORANGE



FIG 23A



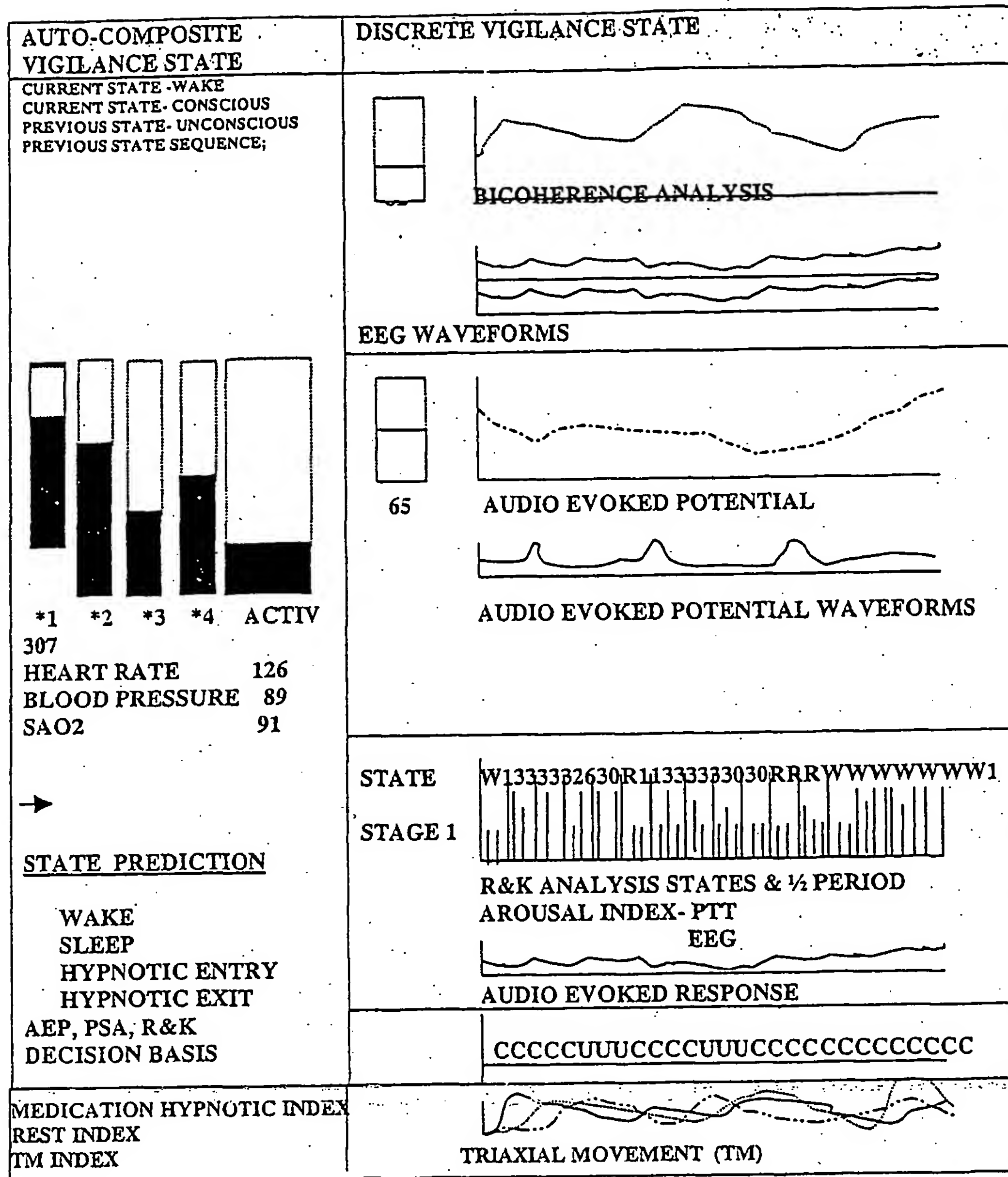
**SIGNAL VALIDATION**

VERY POOR-RED  
 OPTIMAL-GREEN  
 POOR-ORANGE

CURRENT CONSCIOUS STATE- CONSCIOUS  
 TRANSITION STATUS- CONSCIOUS TO UNCONSCIOUS

SIGNAL VALIDATION HINT : CHECK BIC + ELECTRODE  
 ANALYSIS VALIDATION HINT : BIC ANALYSIS LOW QUALITY

**FIG 23B**



KEY;

1 = STAGE 1

2 = STAGE 2

3 = STAGE 3

4 = STAGE 4, R = REM

W = WAKE

C = CONSCIOUS, U = UNCONSCIOUS

FIG 23C

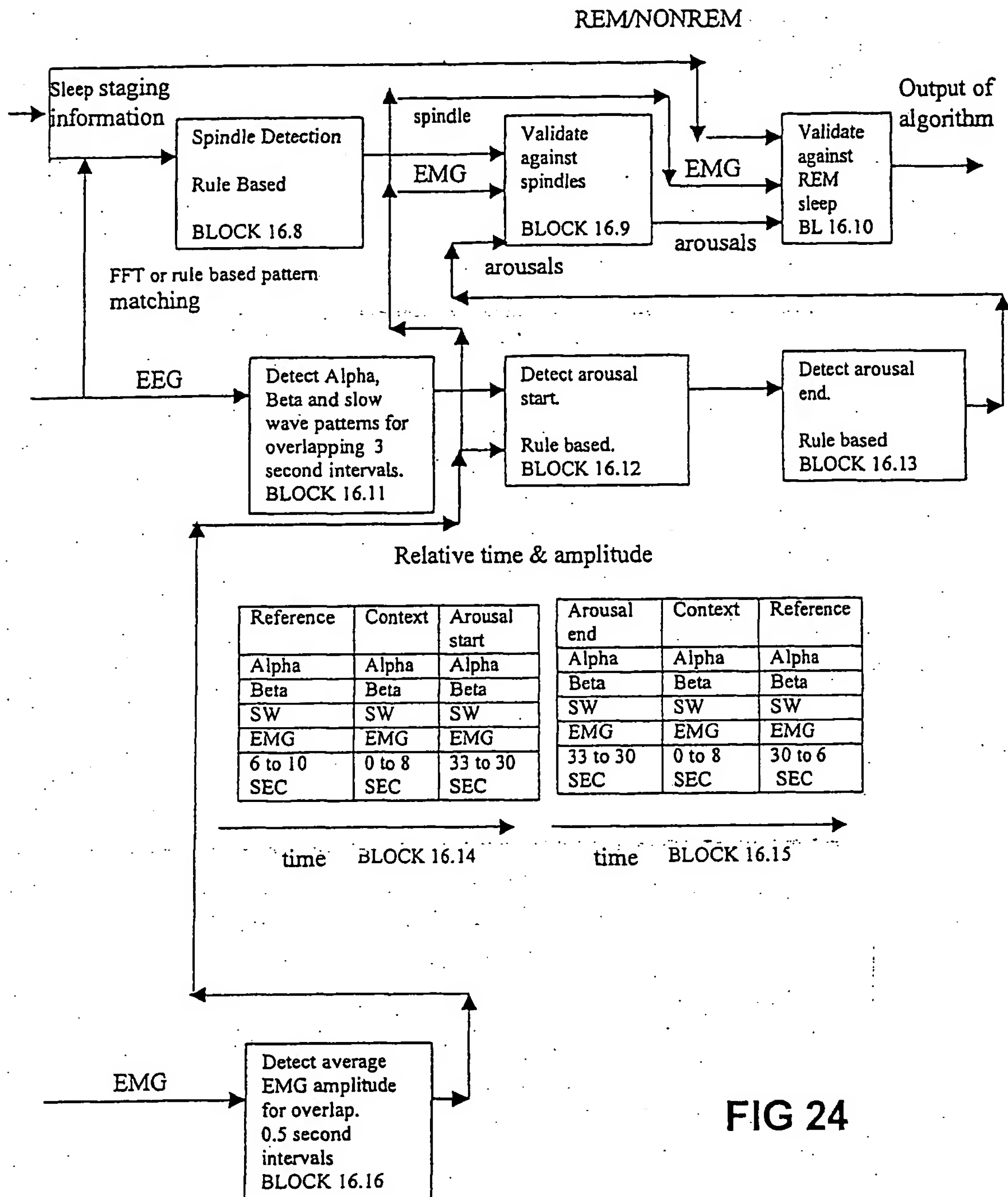
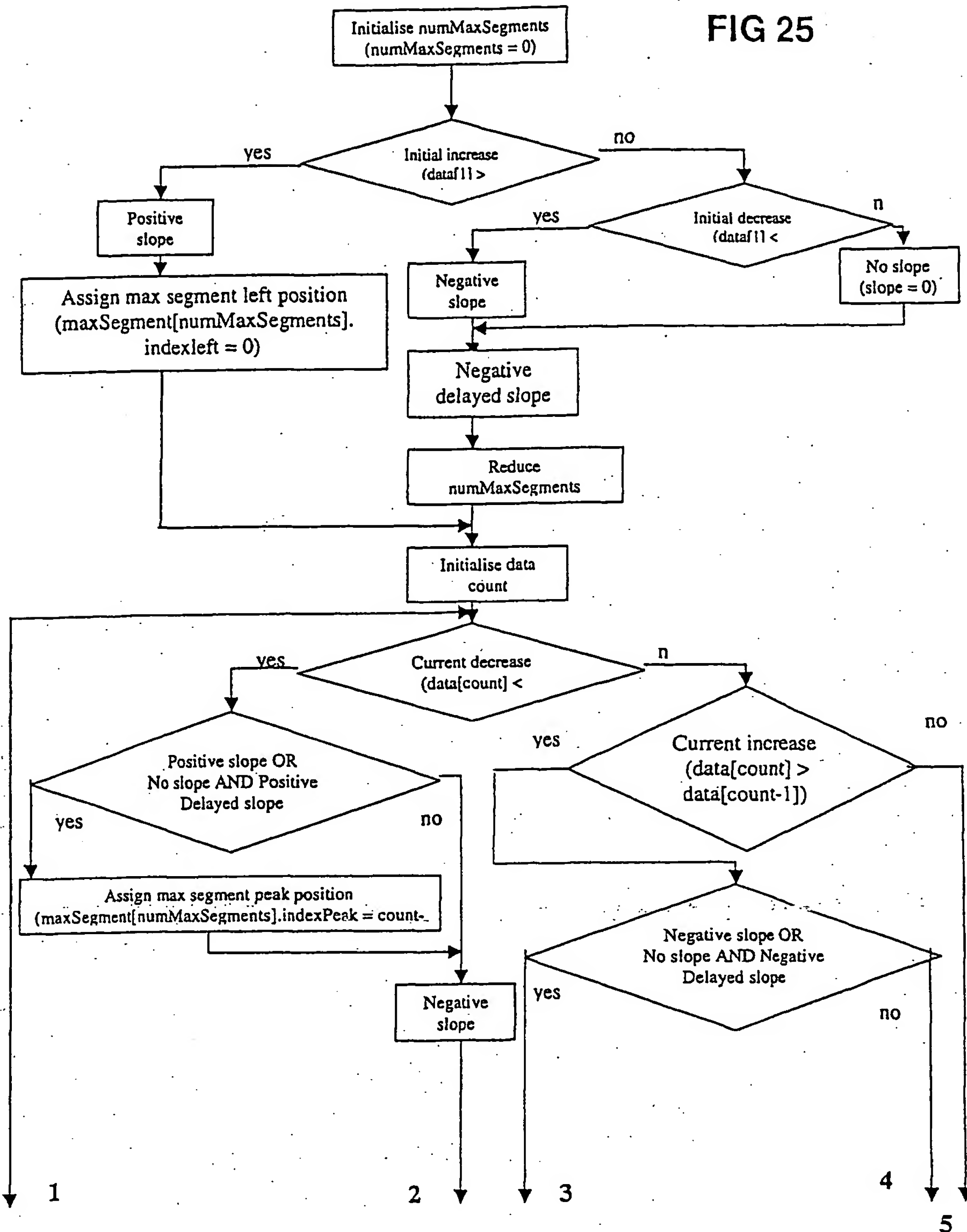


FIG 24



FIG 25





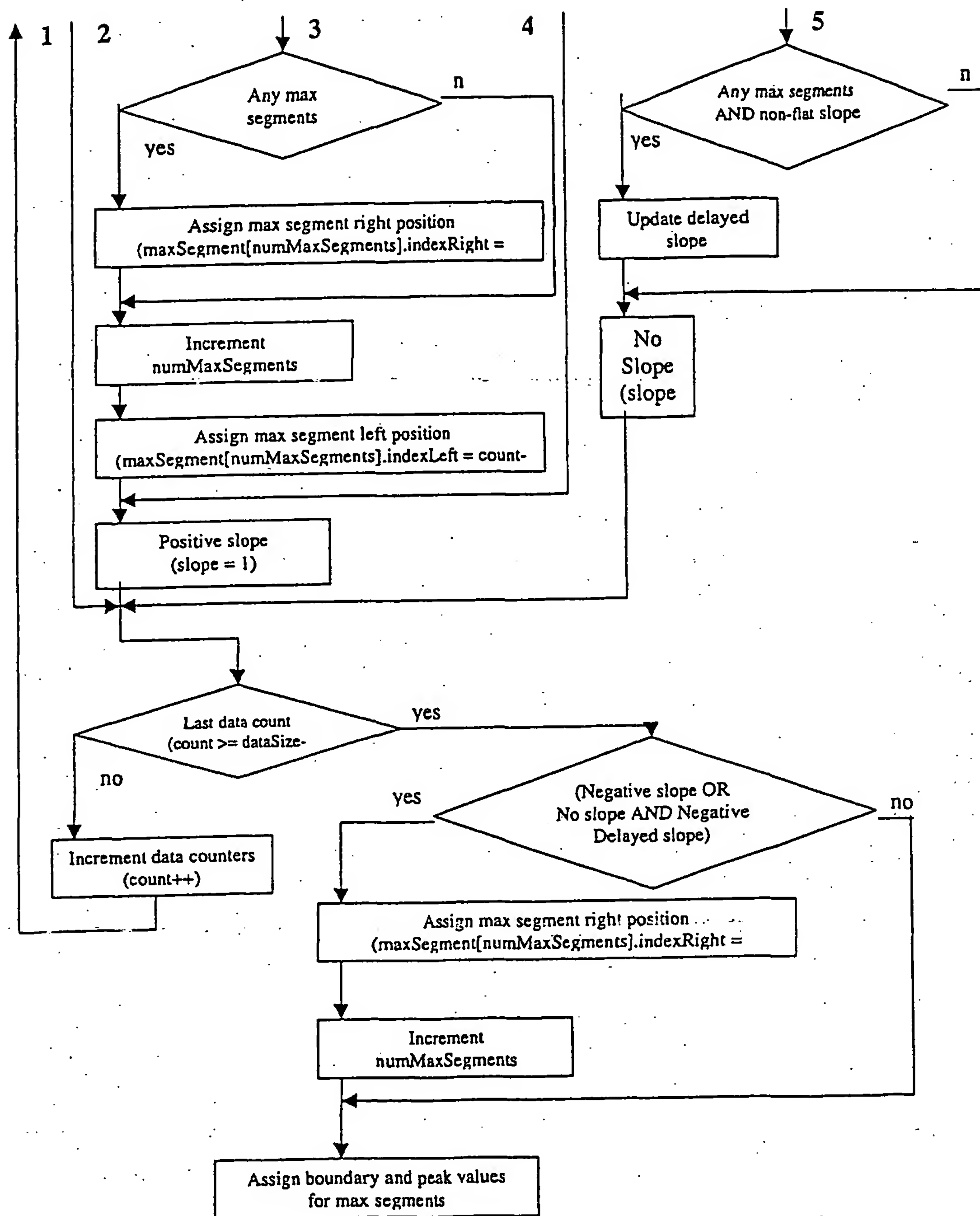
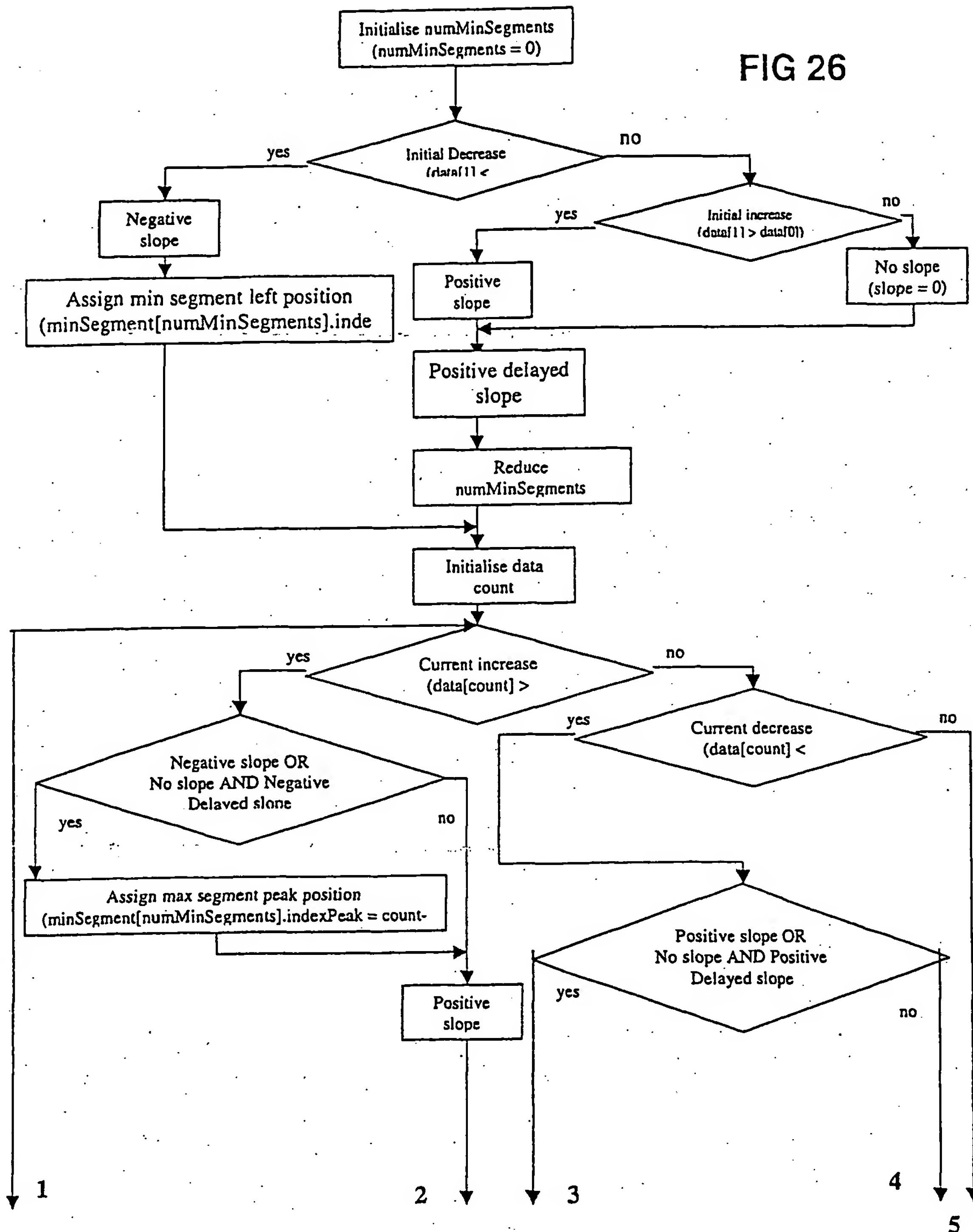


FIG 25 (cont)

FIG 26



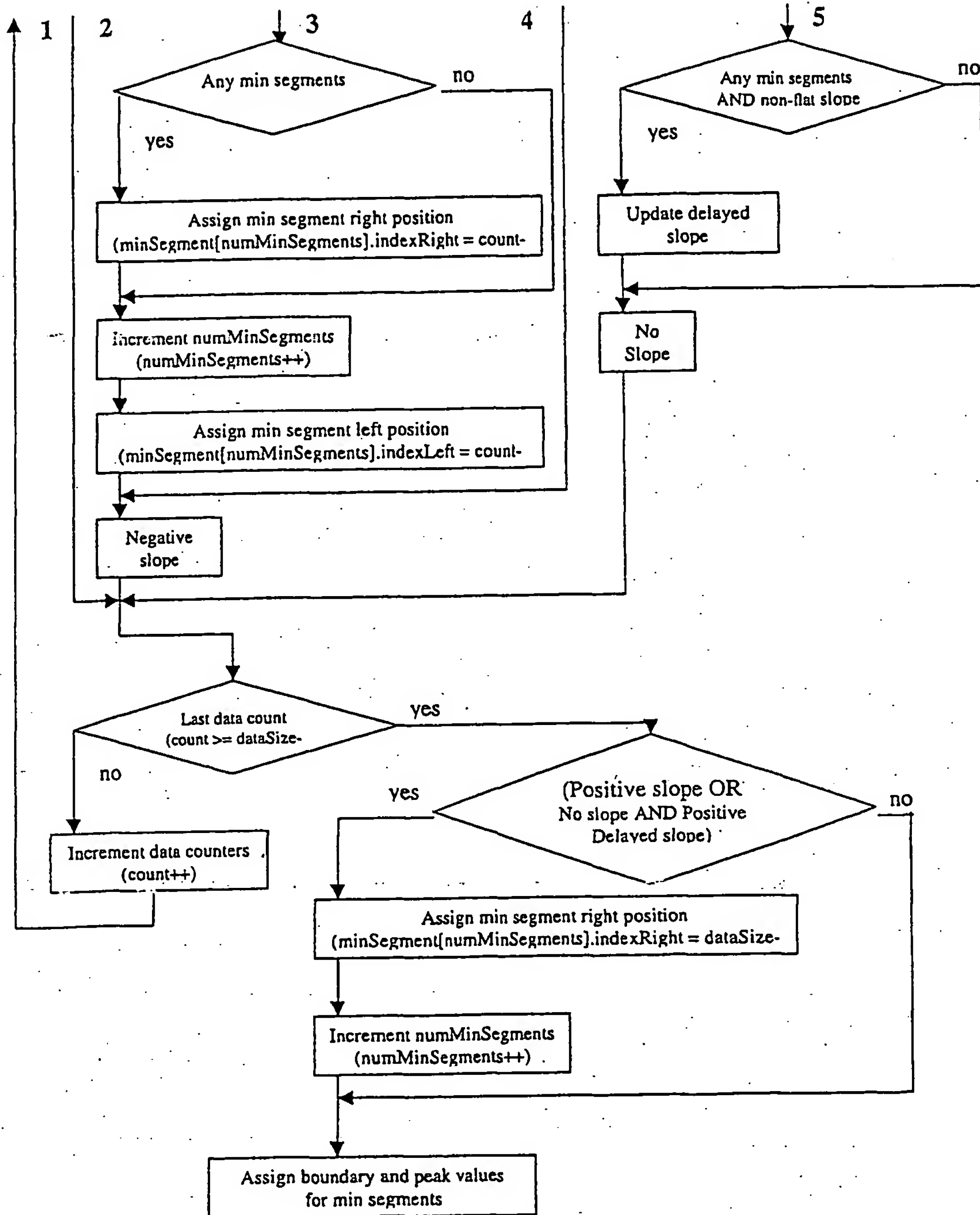


FIG 26 (cont)

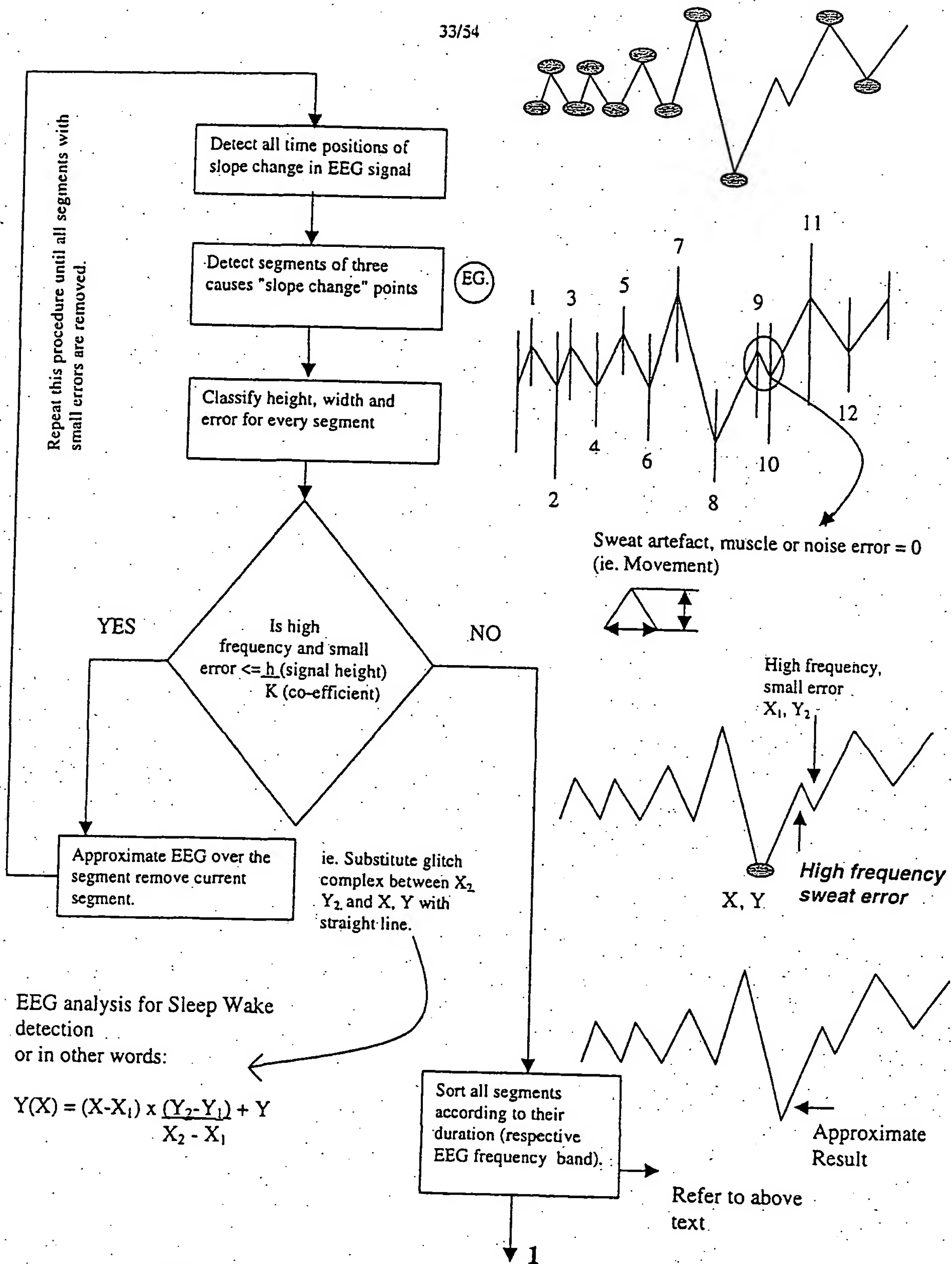
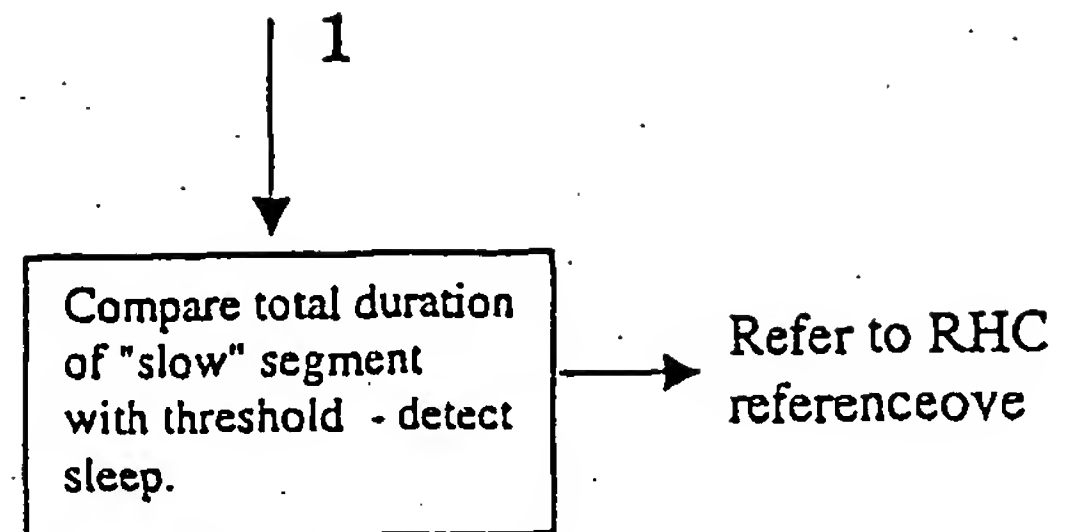


FIG 27



EG. Note 1. we do not apply glitch element sleep analysis is corrupted due to excessive fast frequency noise or artefact signal corruption (this fast frequency artefact can be created by generation of muscle movement)

Note 2.

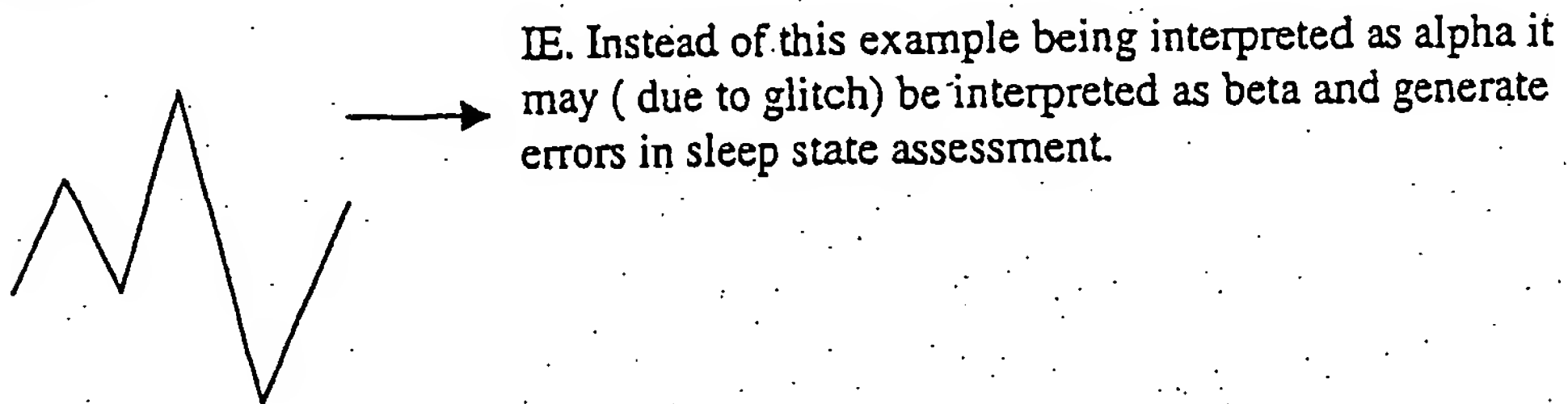


FIG 27 (cont)

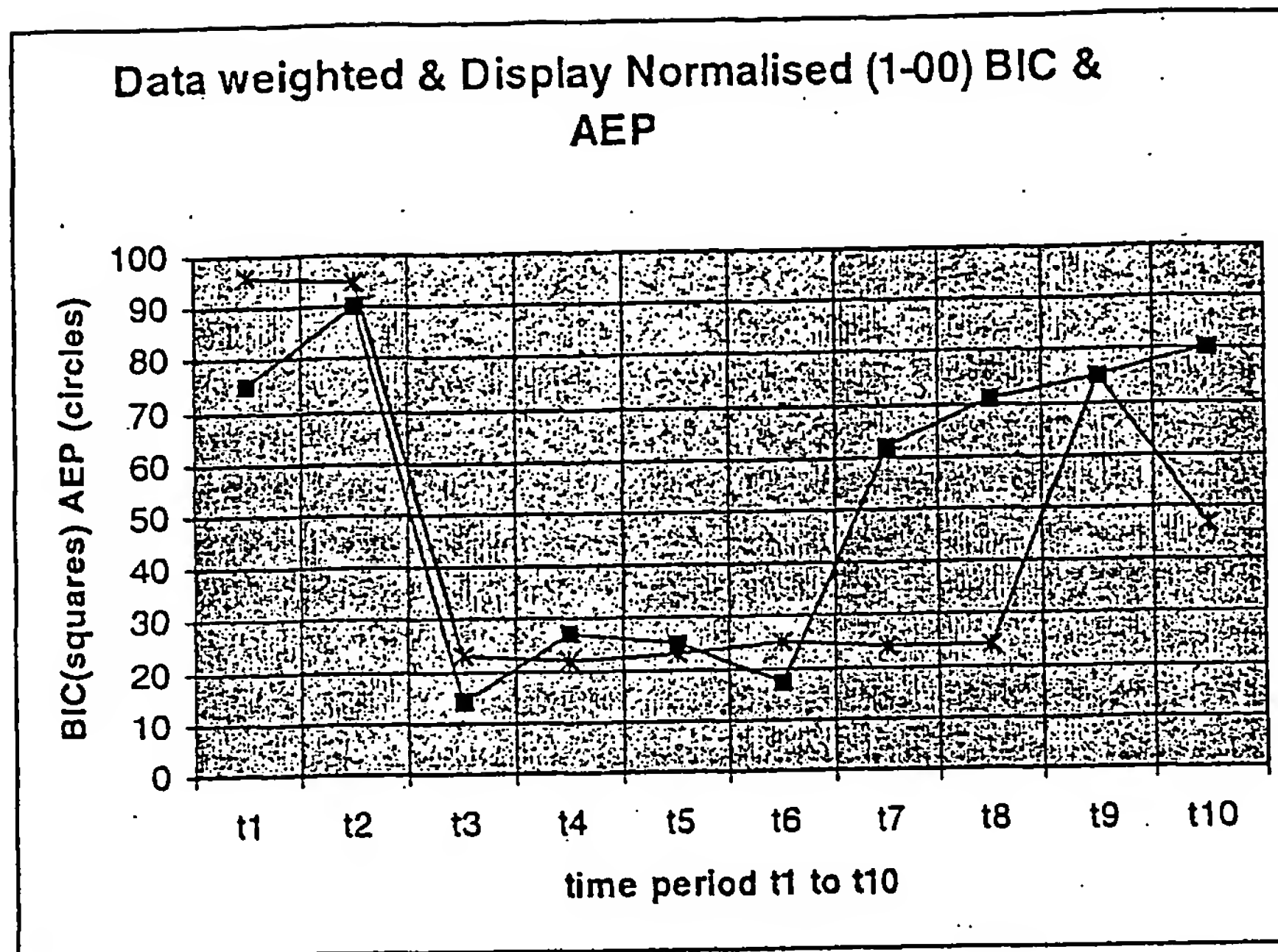
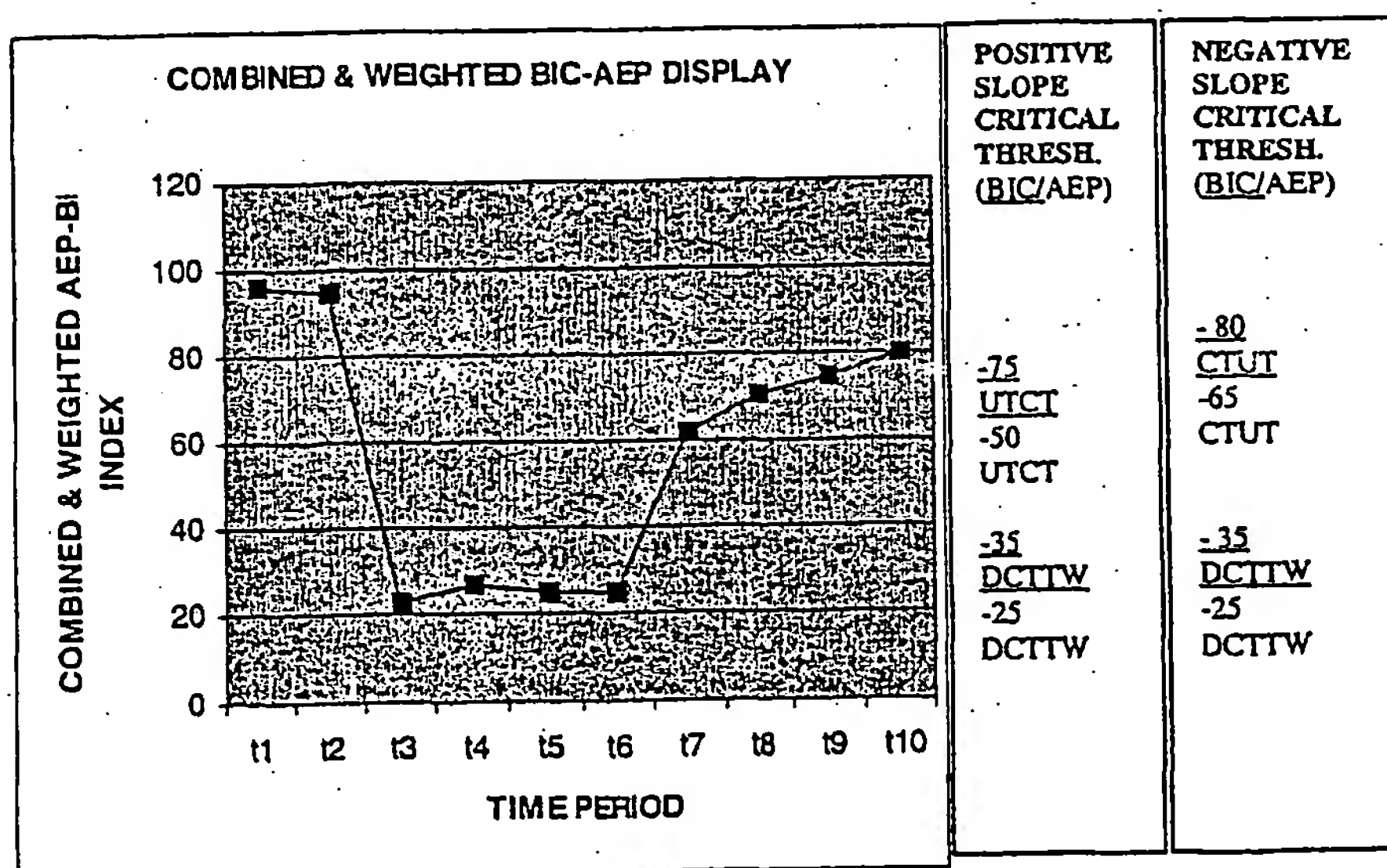


FIG 28



STATE- UNCONSCIOUS  
WARNINGS- NONE

FIG 29

Input data for  $S=1, S=2, S=3, \dots, S=n-1, S=n$

Input Analysis Type	S=1 input data
1	26
2	79
3	89
4	56
5	33

Output Data

89

FIG 30A

Input Analysis Type	S=1 input data
1	26
2	33
3	78
4	57
5	30

78

Where  $S$  = data sample  
 $S1$  = data sample 1  
Where  $n$  = total number of data samples

FIG 30B



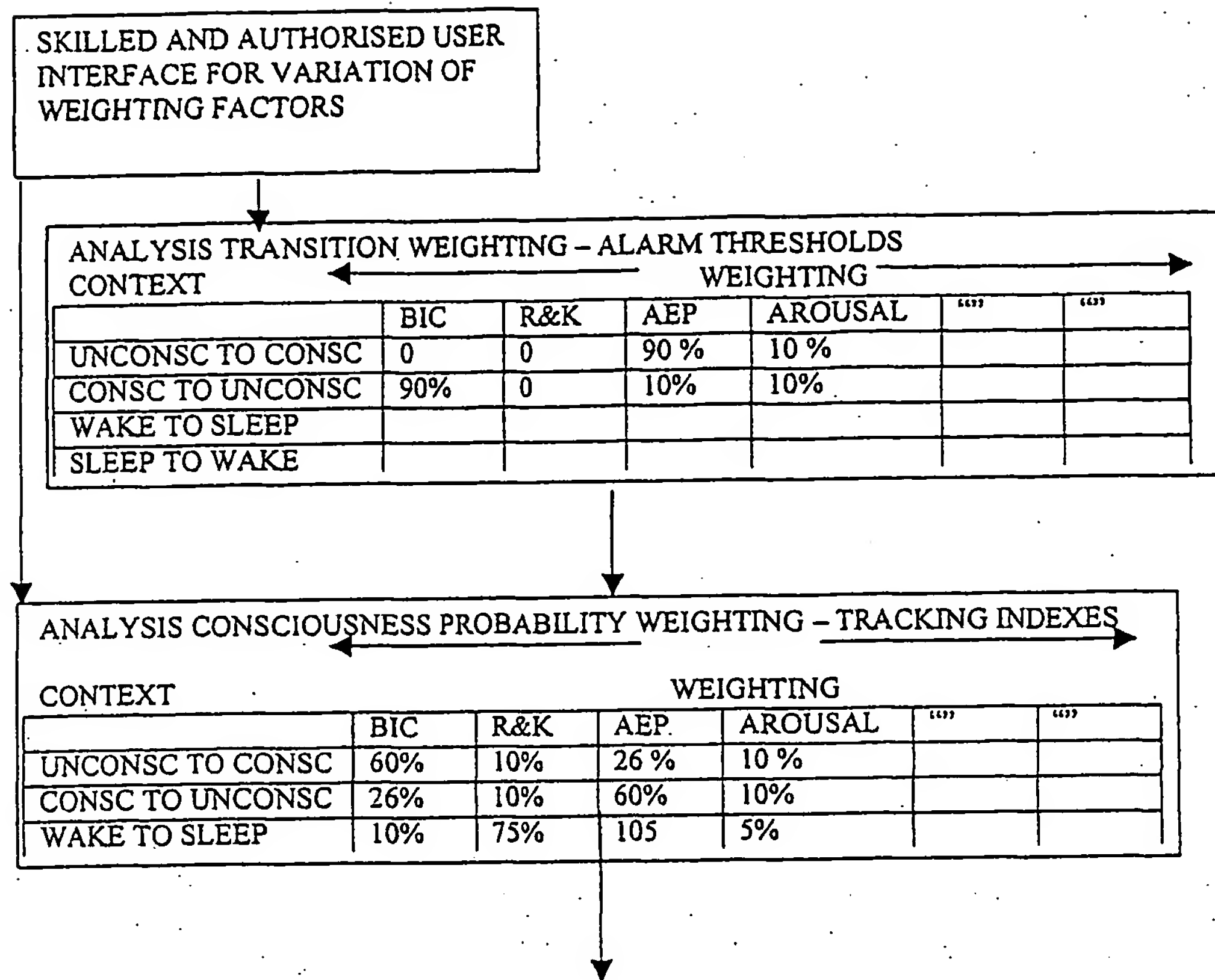


FIG 31

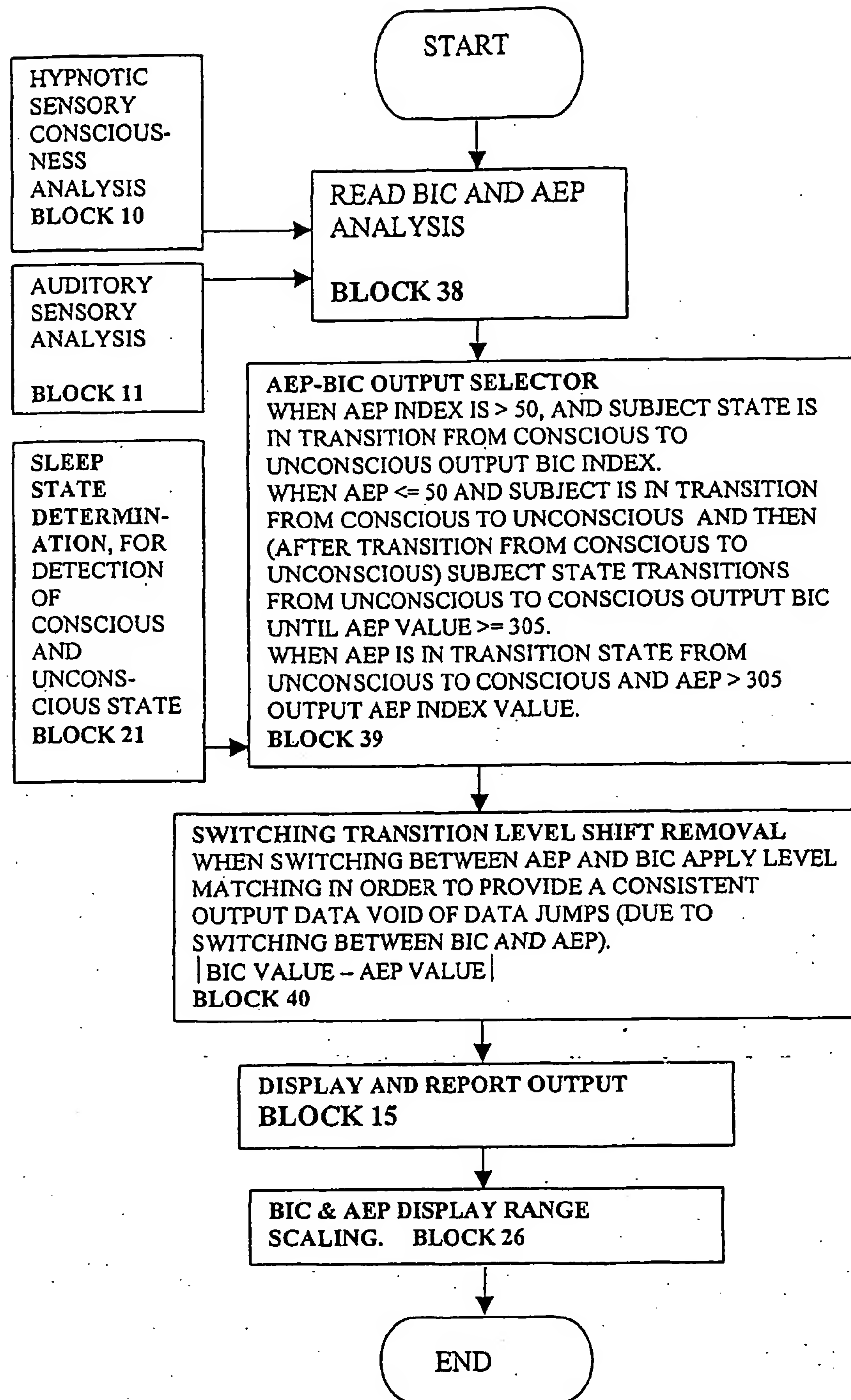
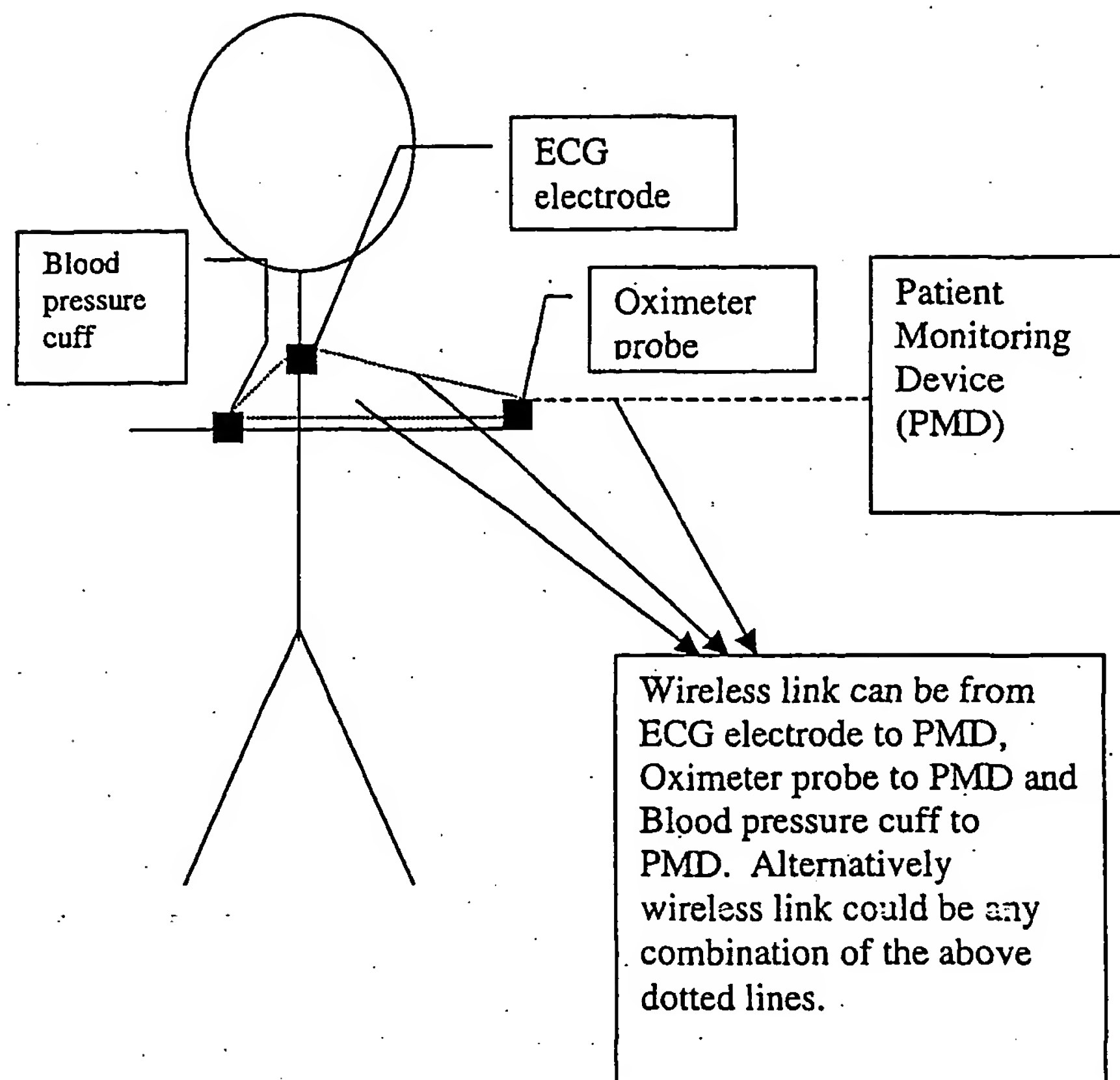
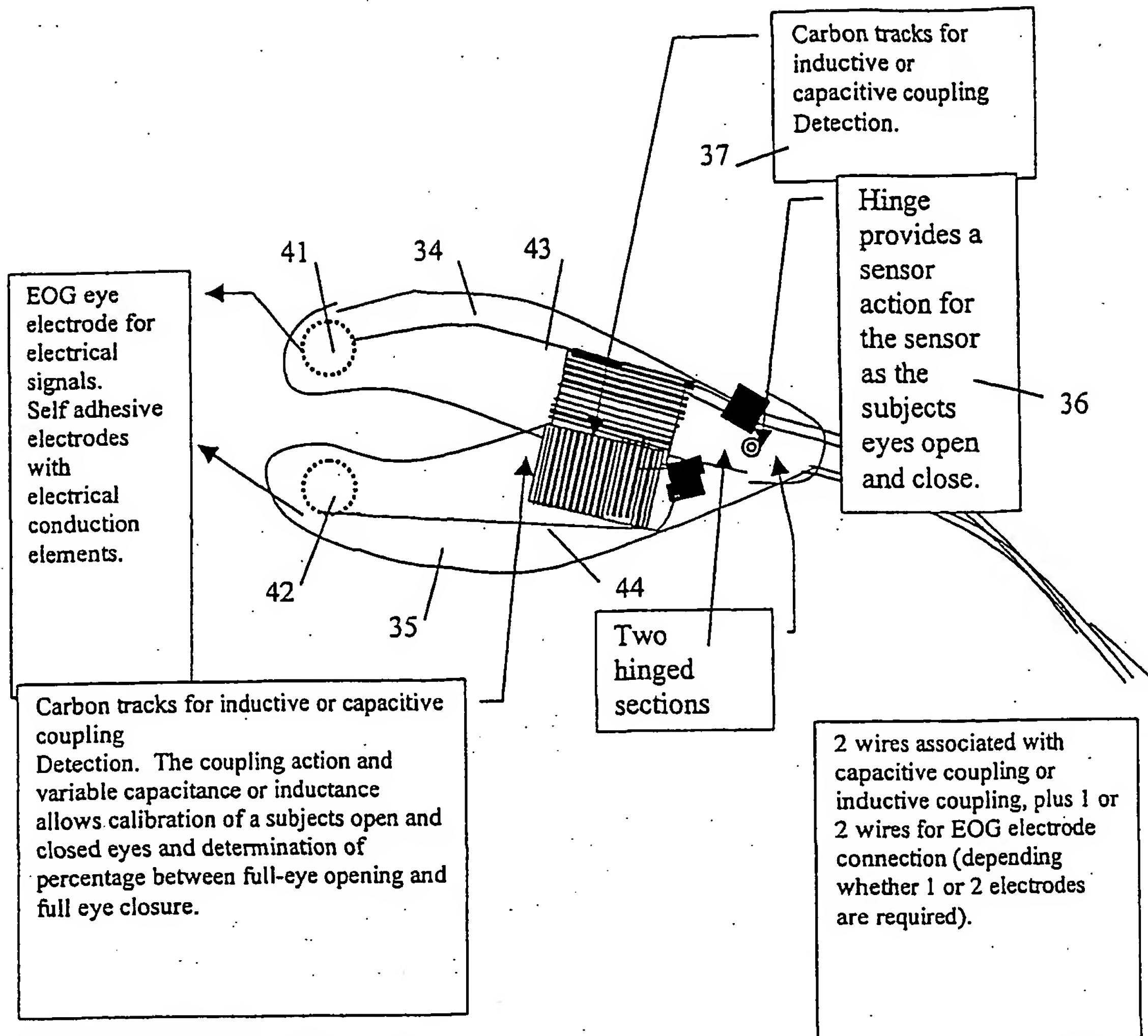


FIG 32

**FIG 33**



Example of attachment to subject's eye:

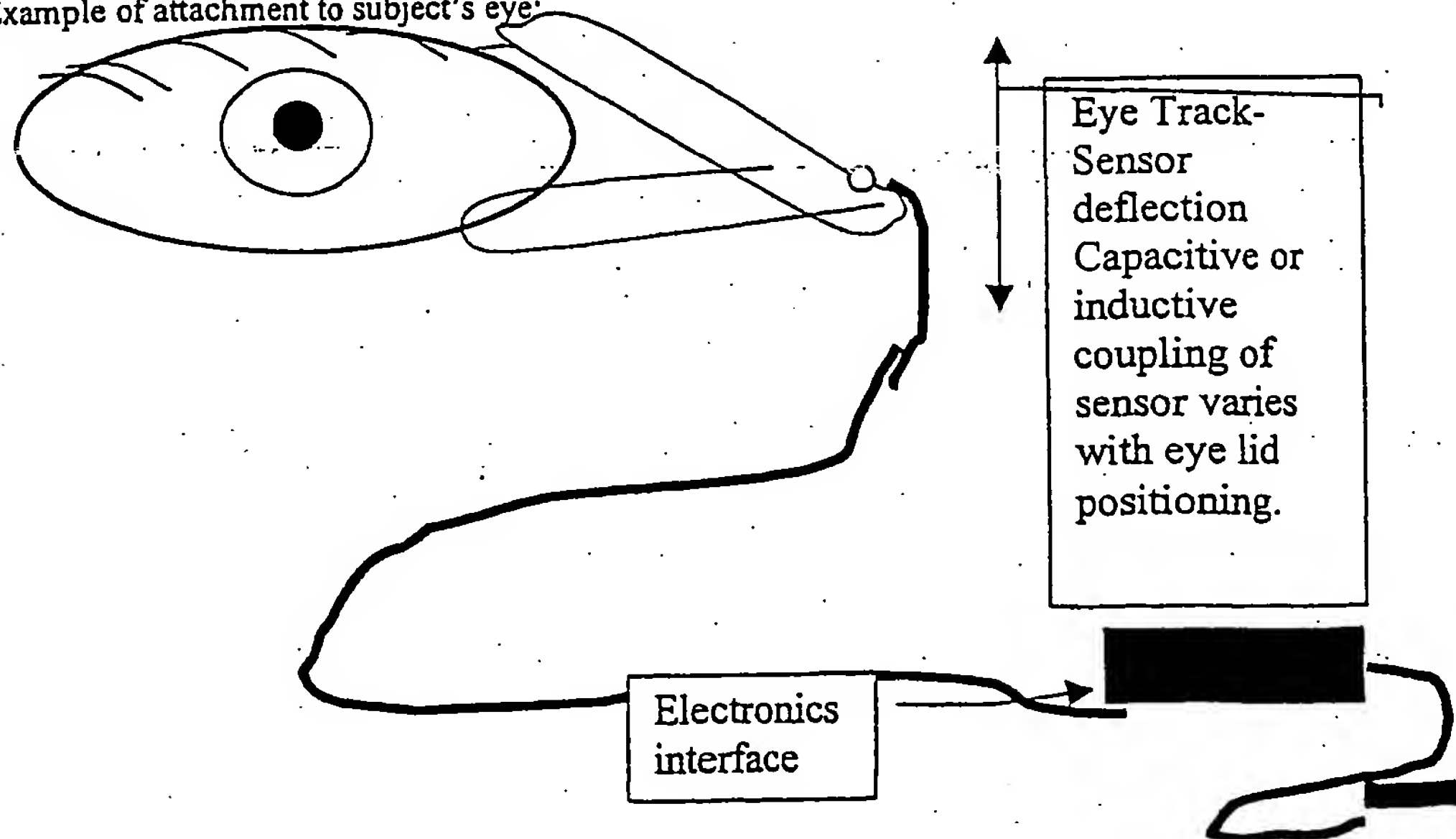


FIG 34A

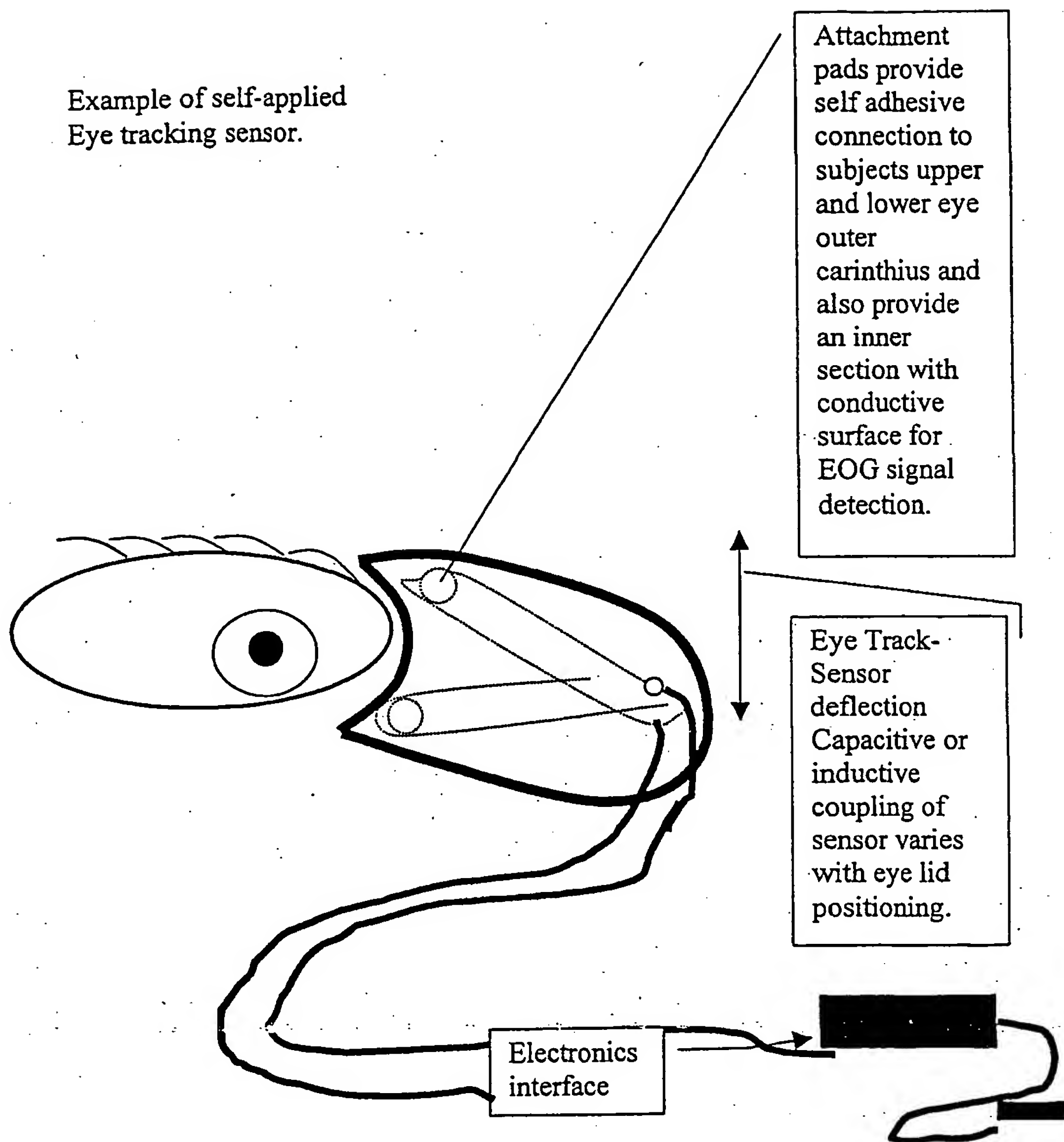
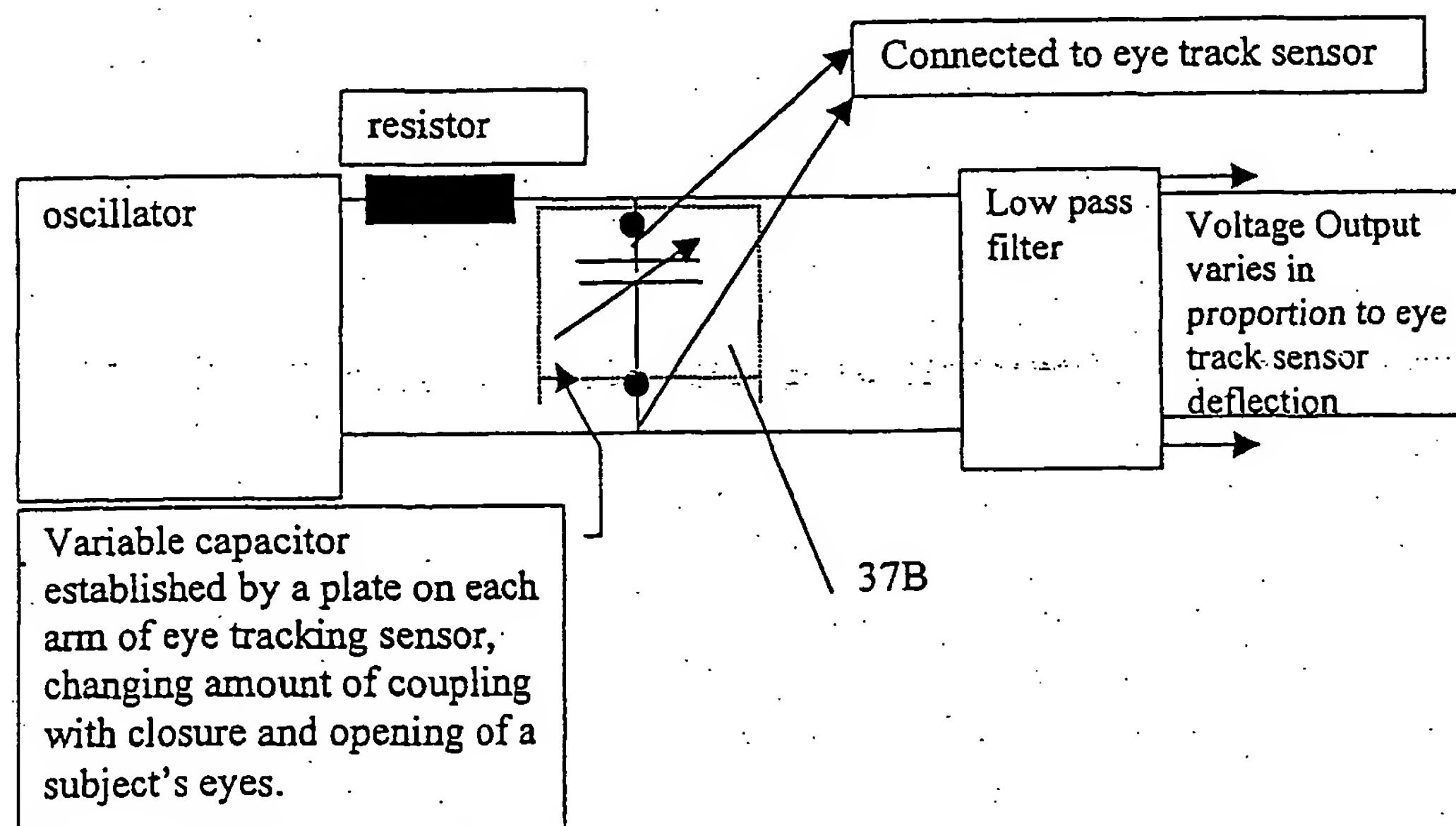
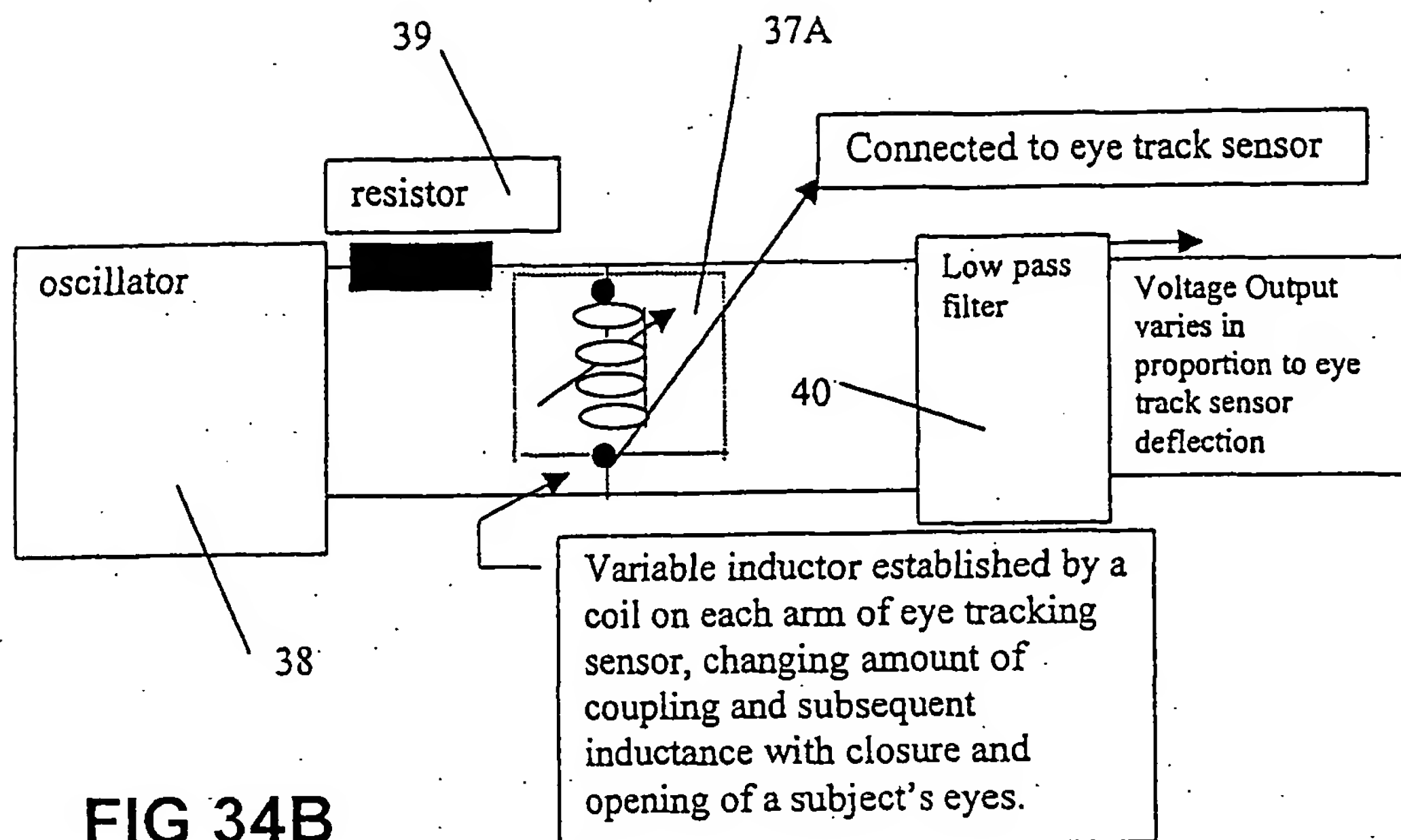
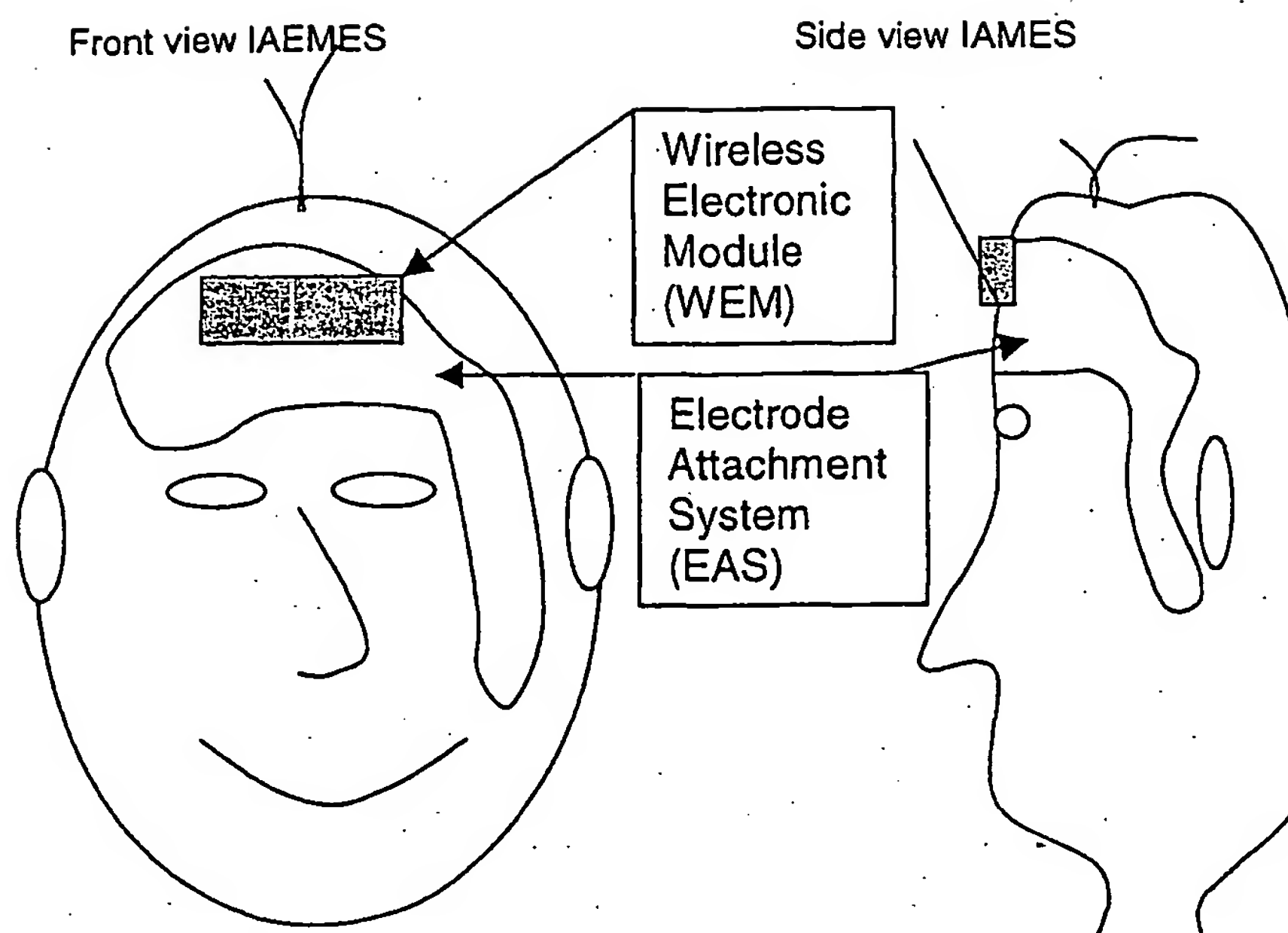


FIG 34A (cont)



**FIG 35**

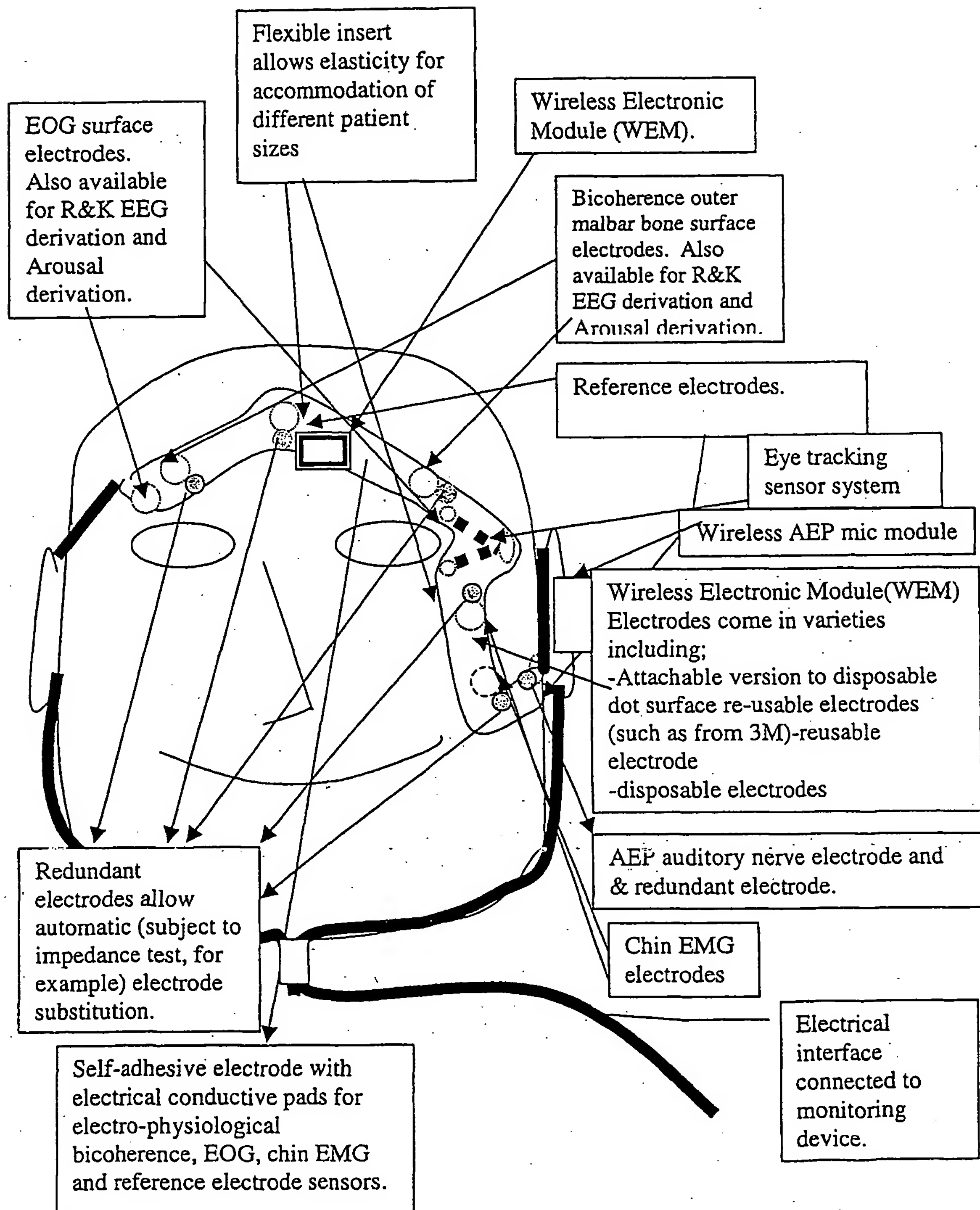
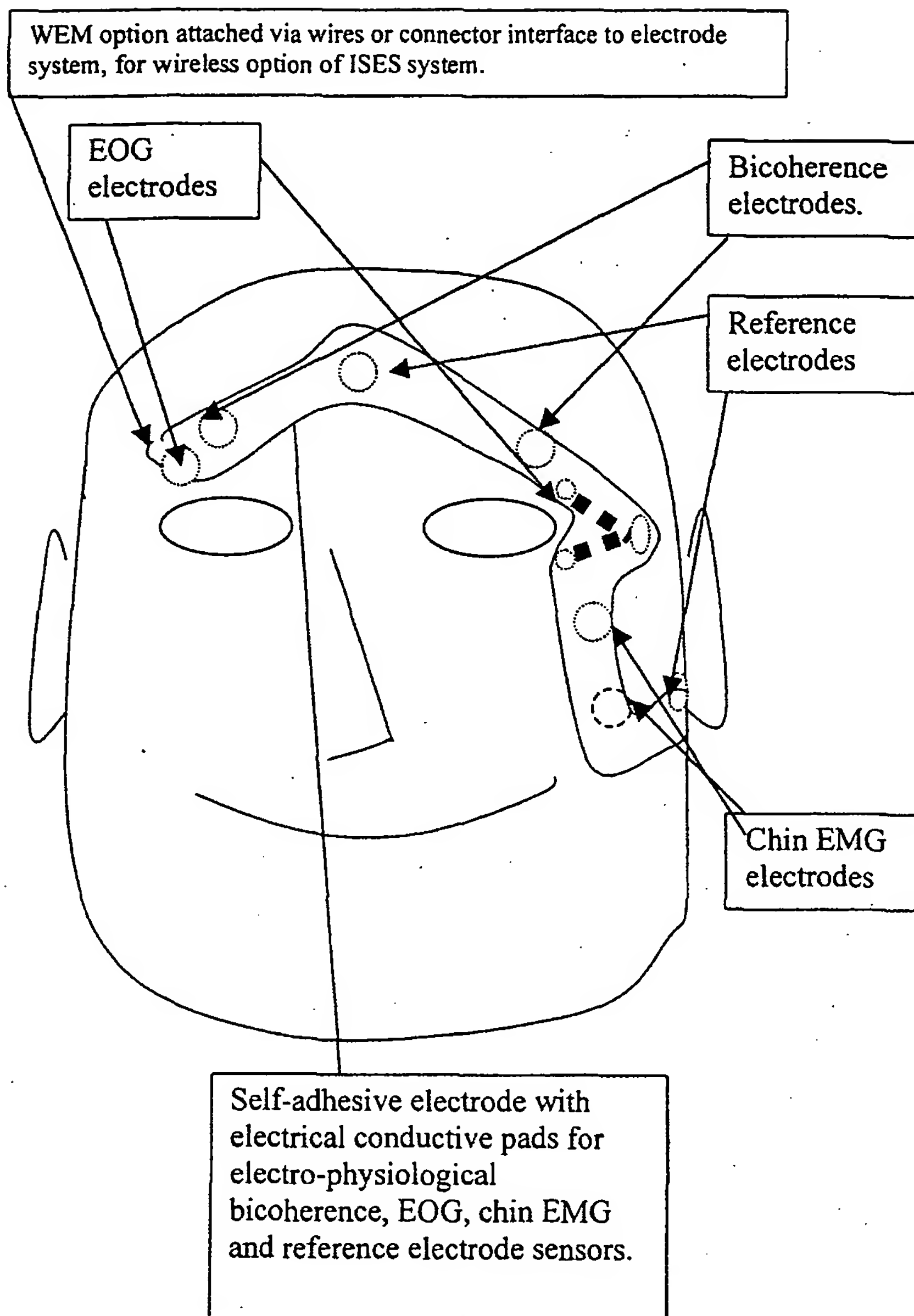
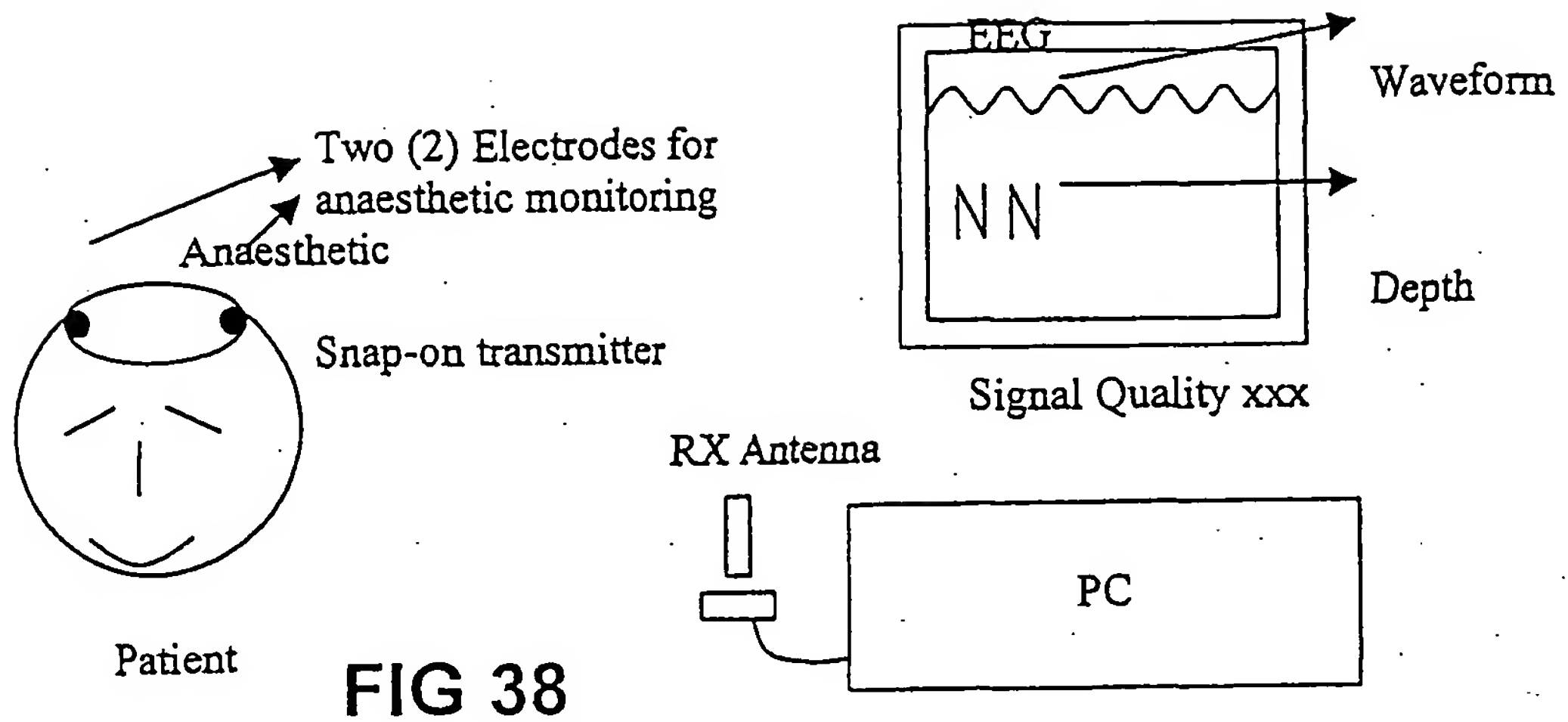


FIG 36



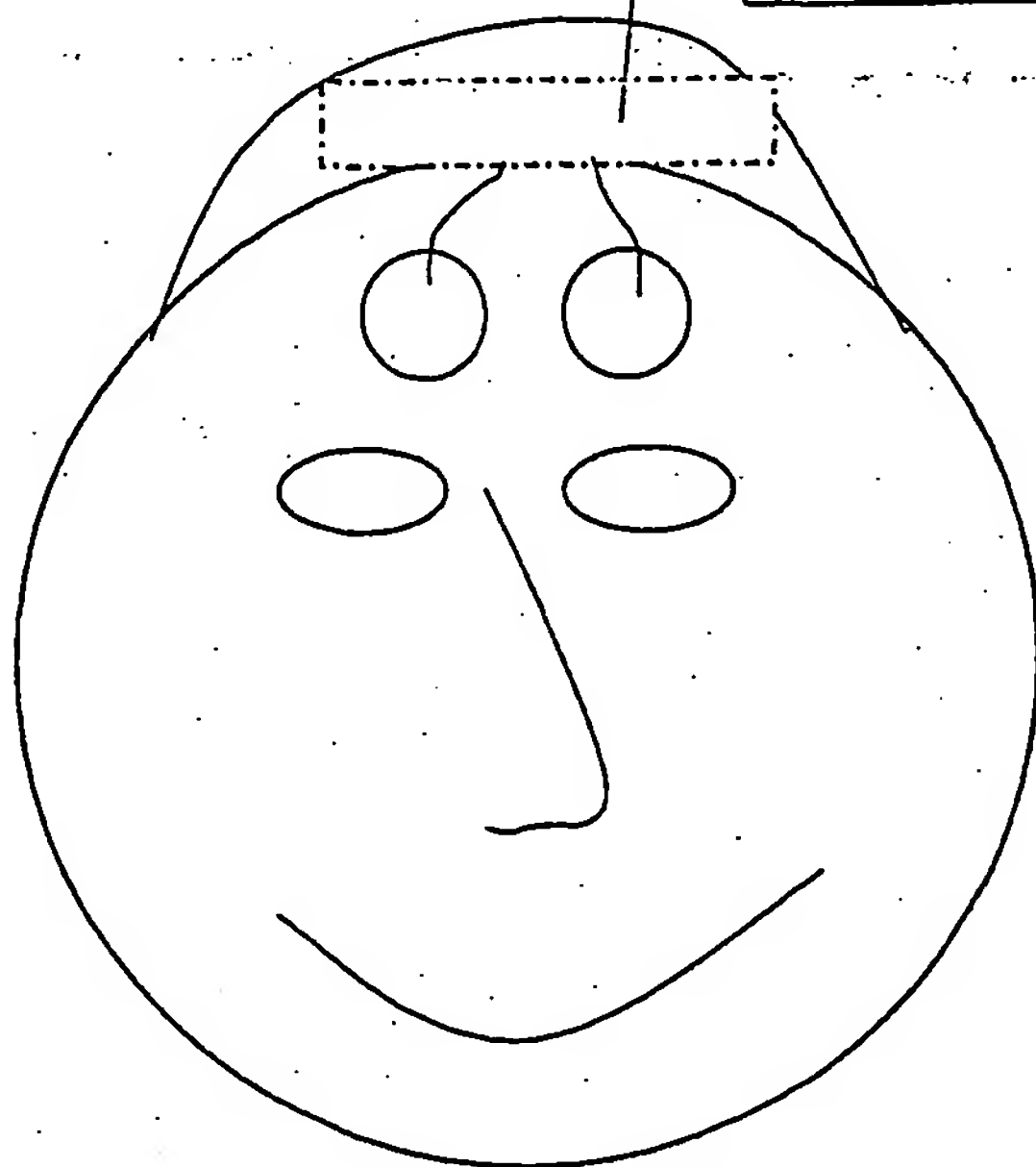
**FIG 37**



Version where active electrode is positioned via very short wires to a convenient location point such as under a head cap or other.

Wireless module with in-direct attach format where wireless module attaches via small wires and press-stud, clip or slide in type connection formats direct to or electrode substrate or electrodes, which are in attached to patient. In this format the in-direct attachment provides increased interference dure to longer interconnecting wire distances.

**FIG 46**



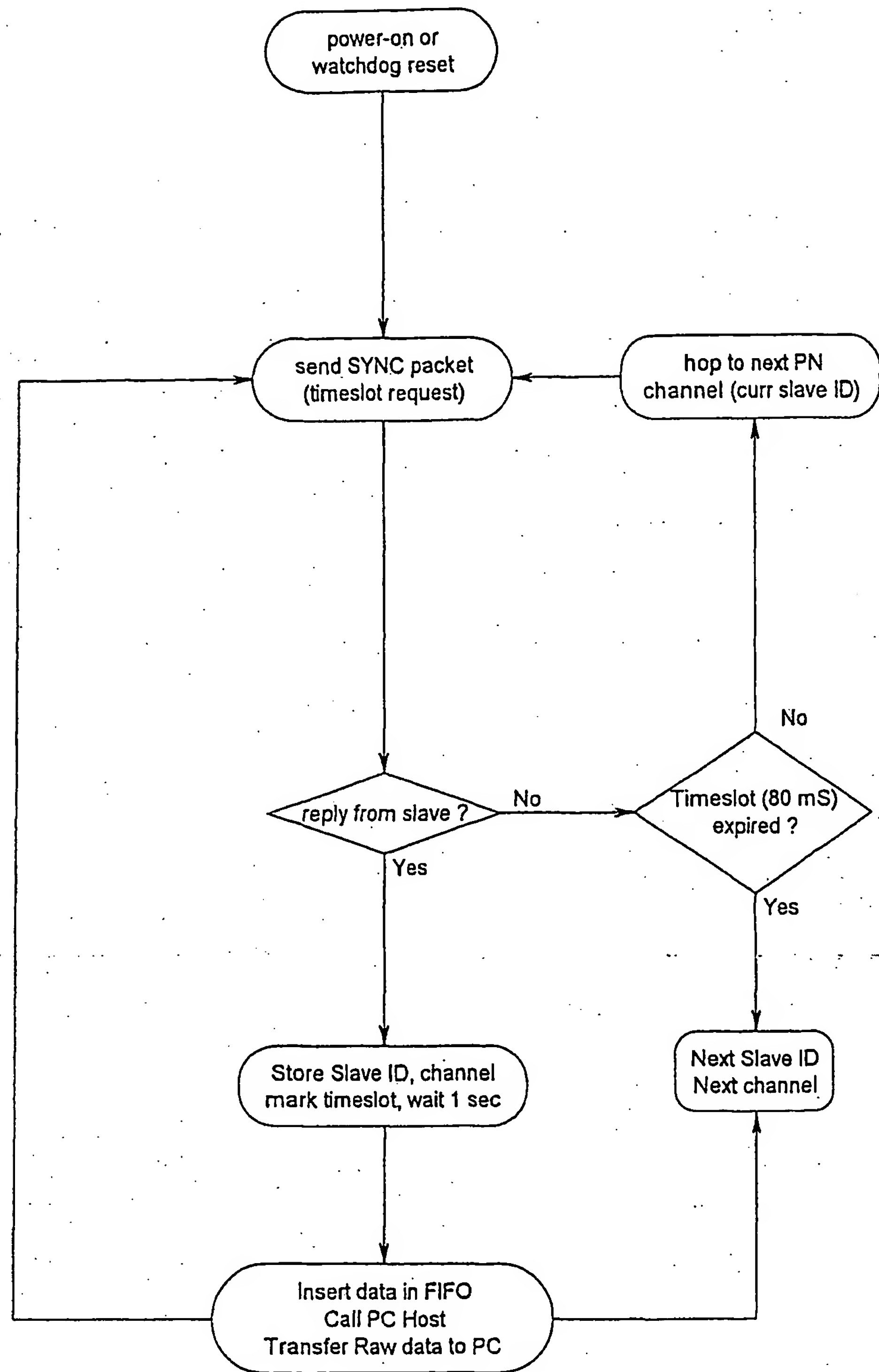


FIG 39

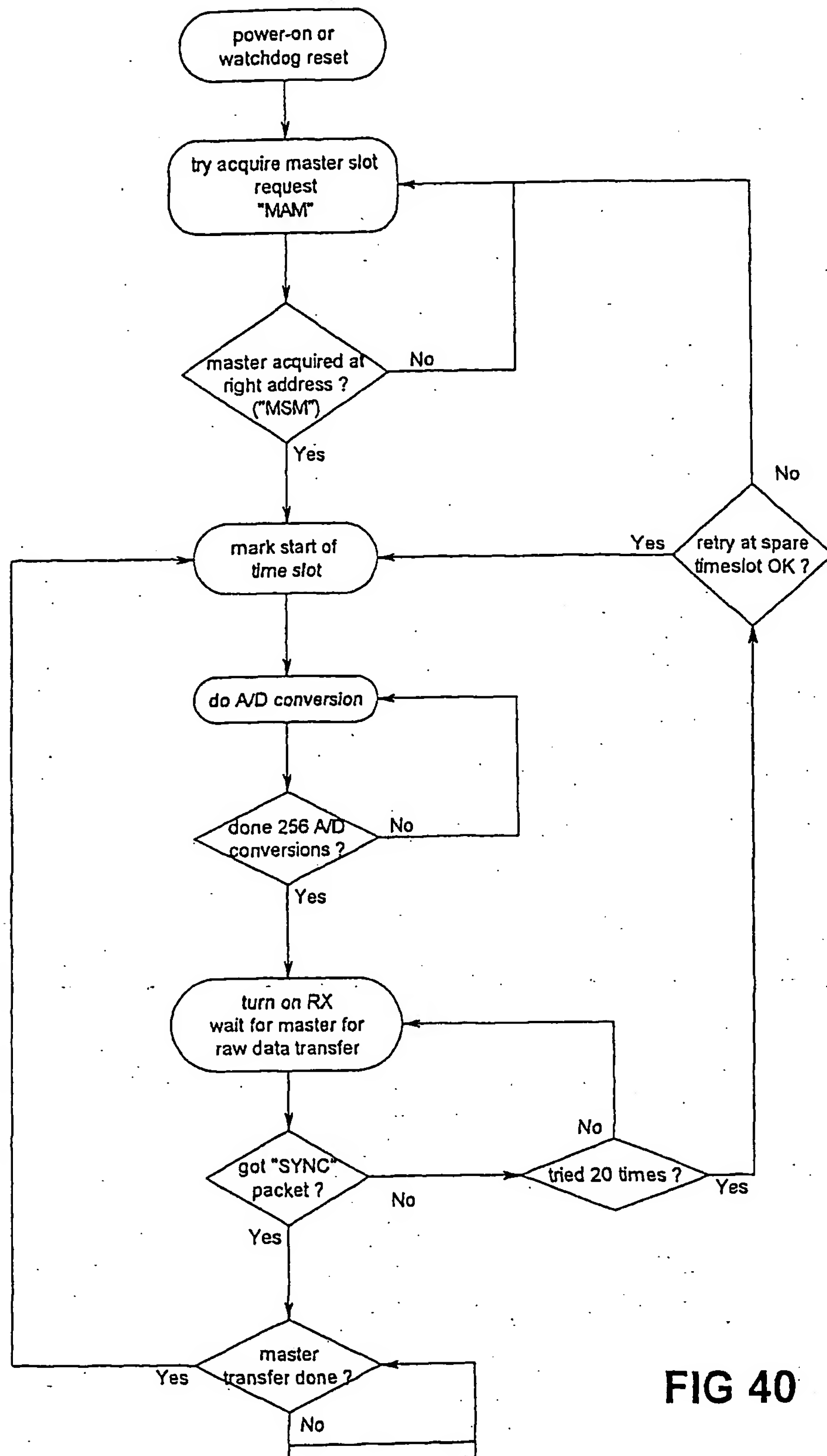


FIG 40

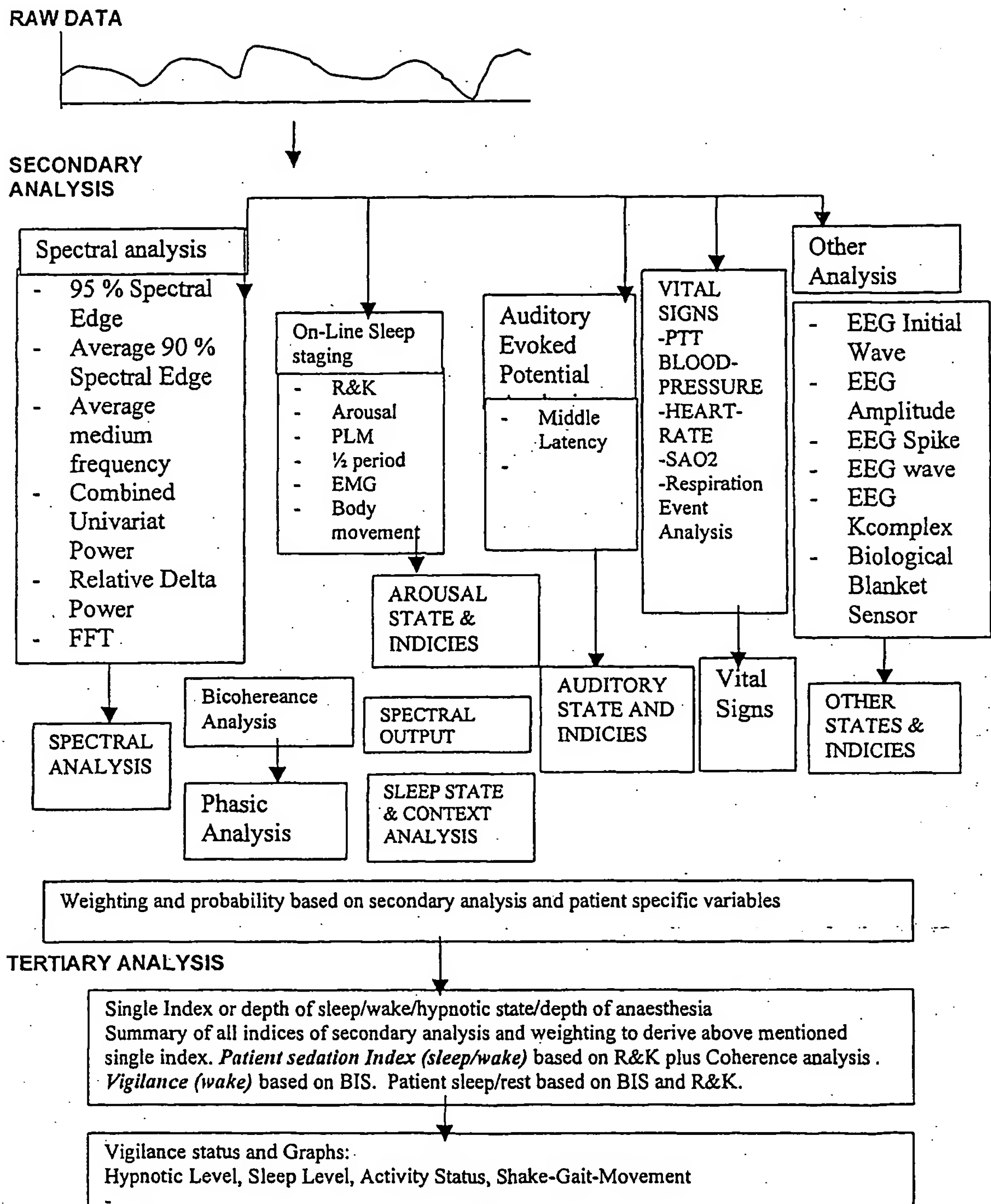


FIG 41

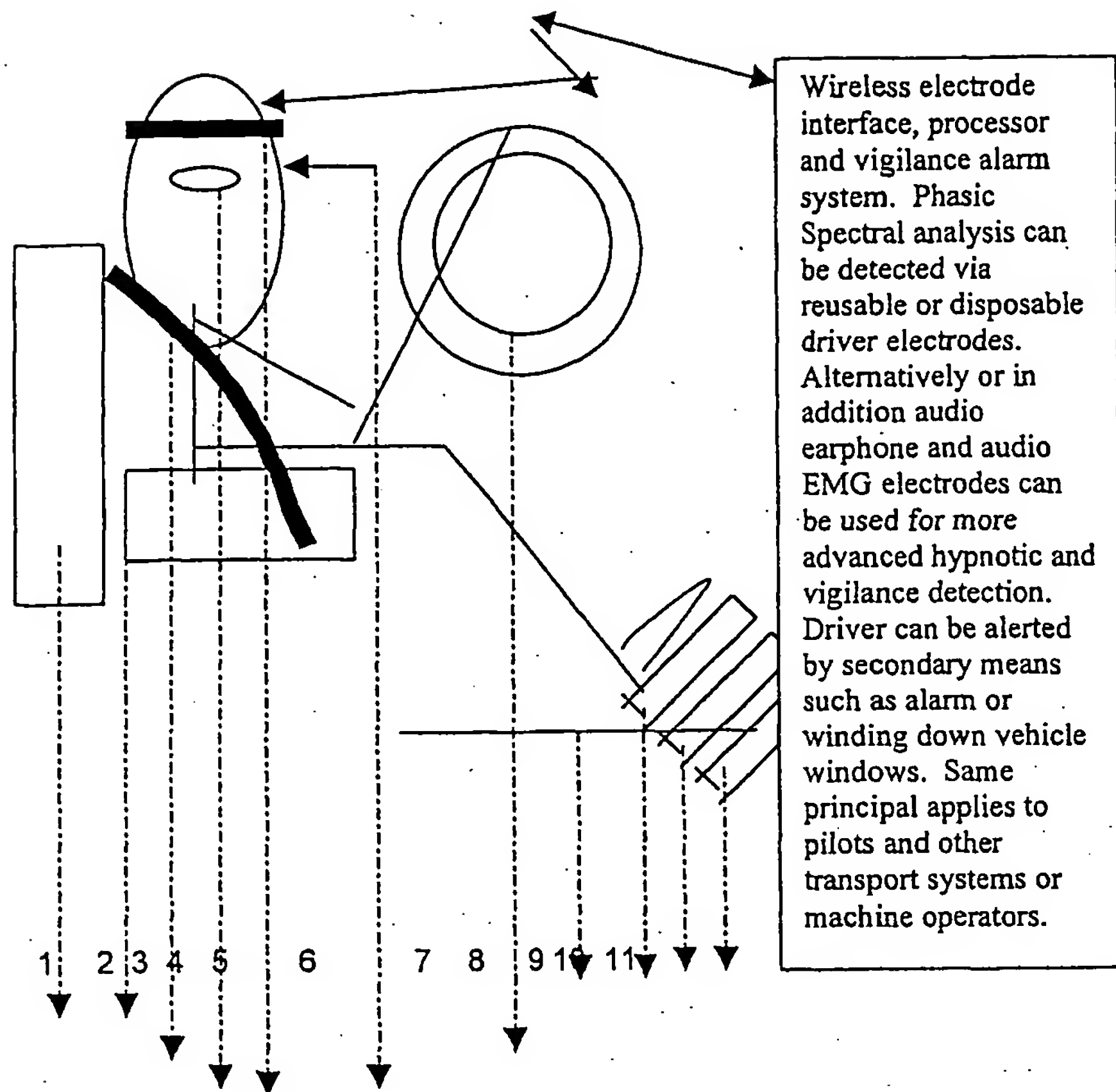


FIG 42

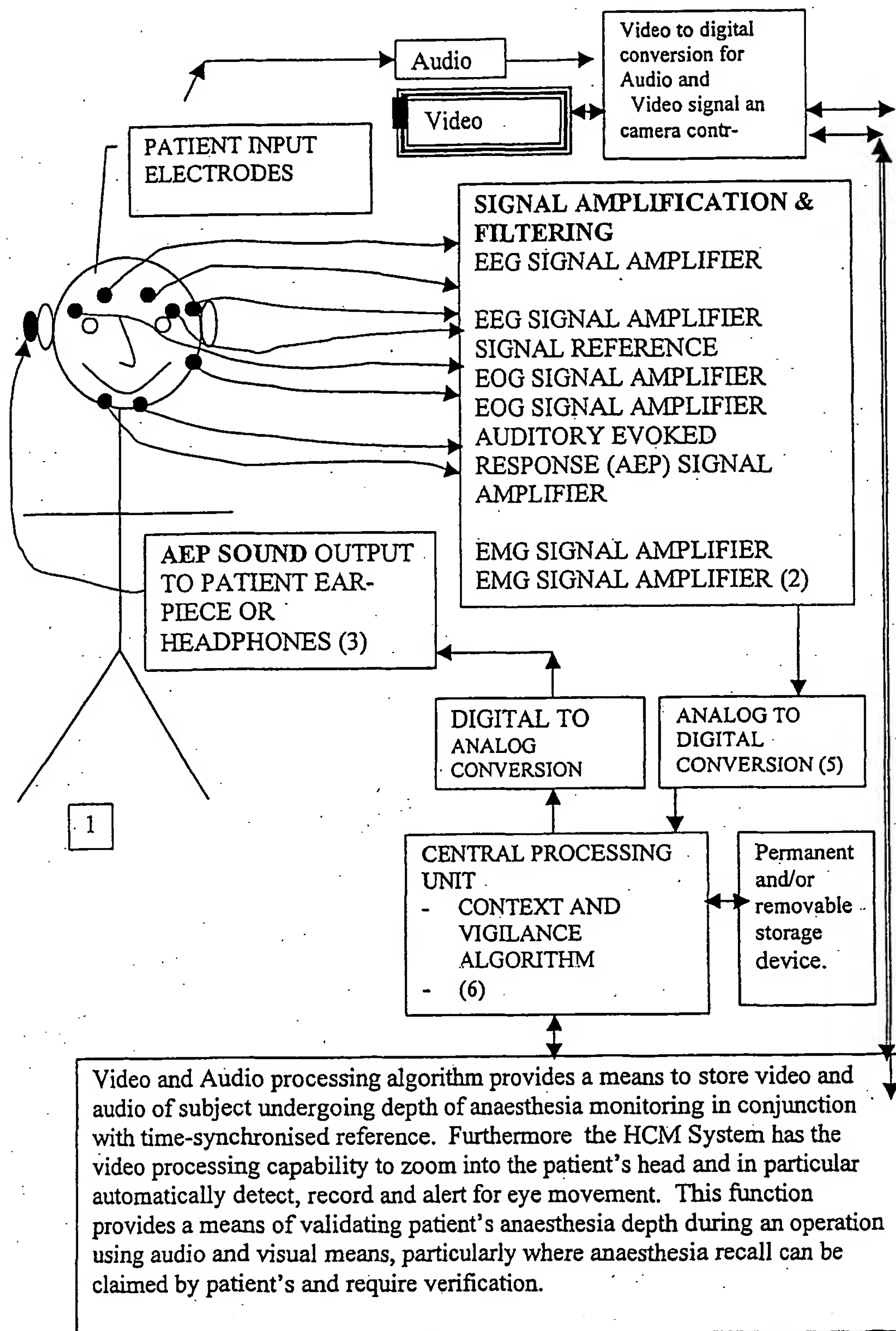


FIG 43

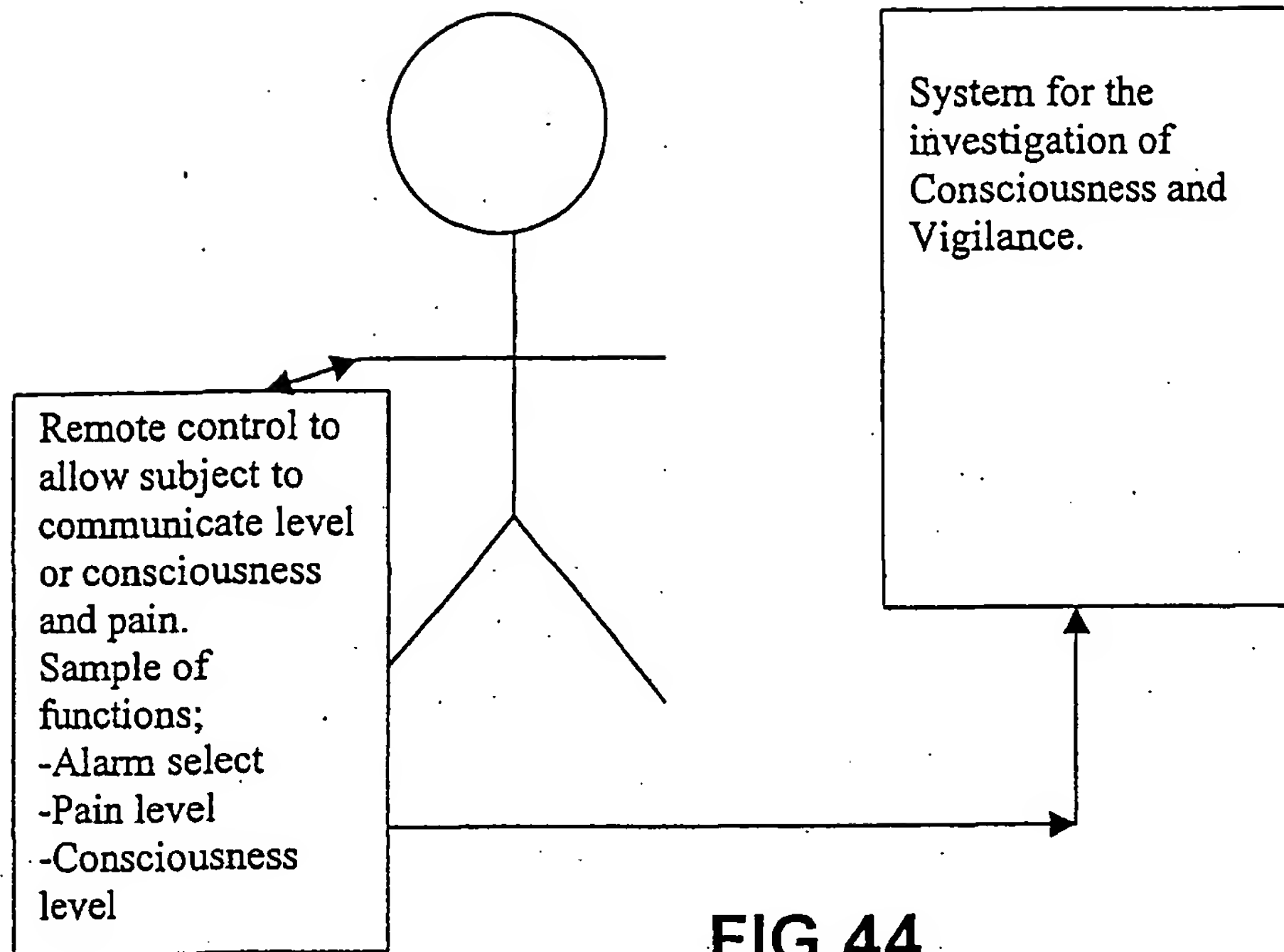


FIG 44

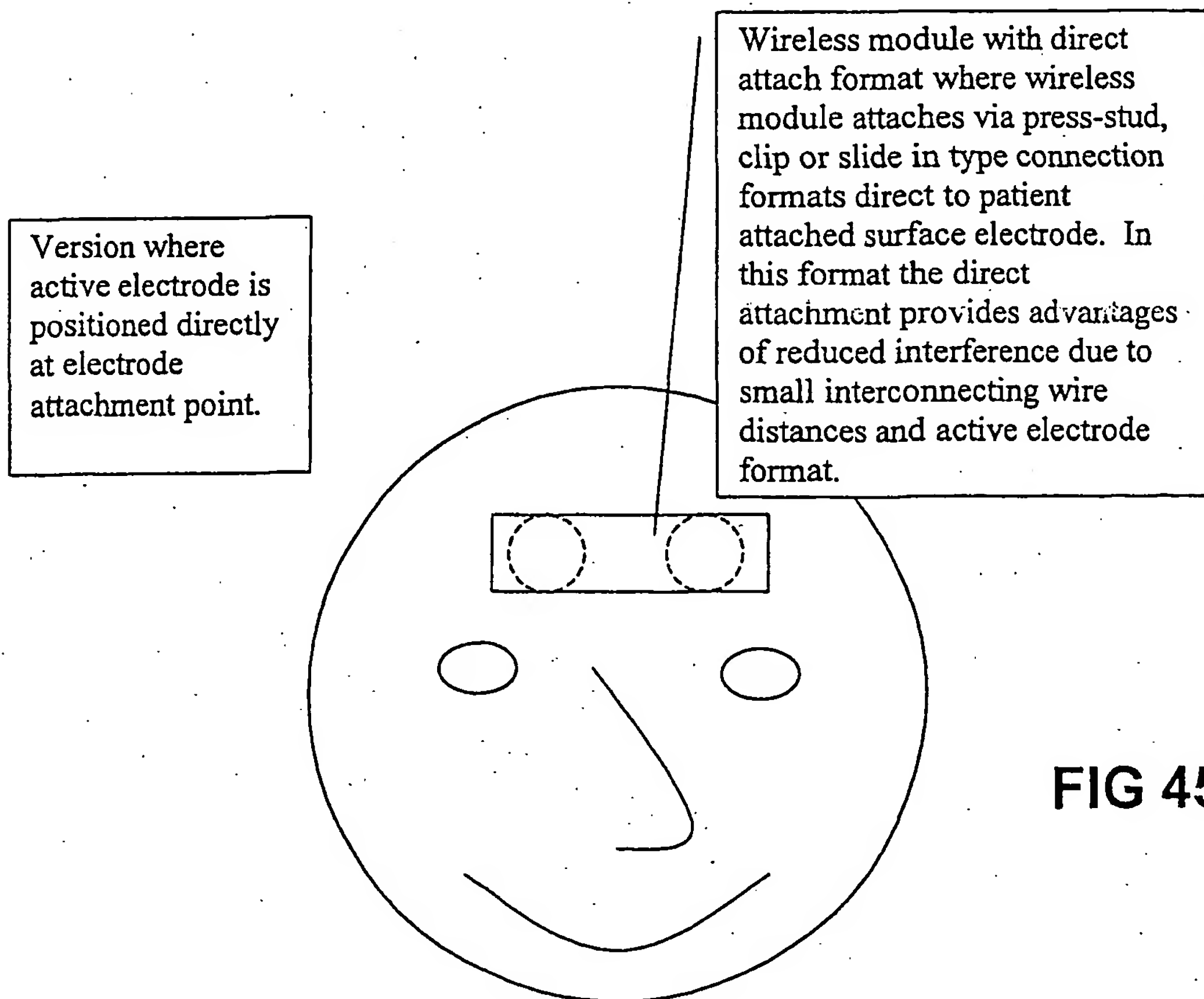
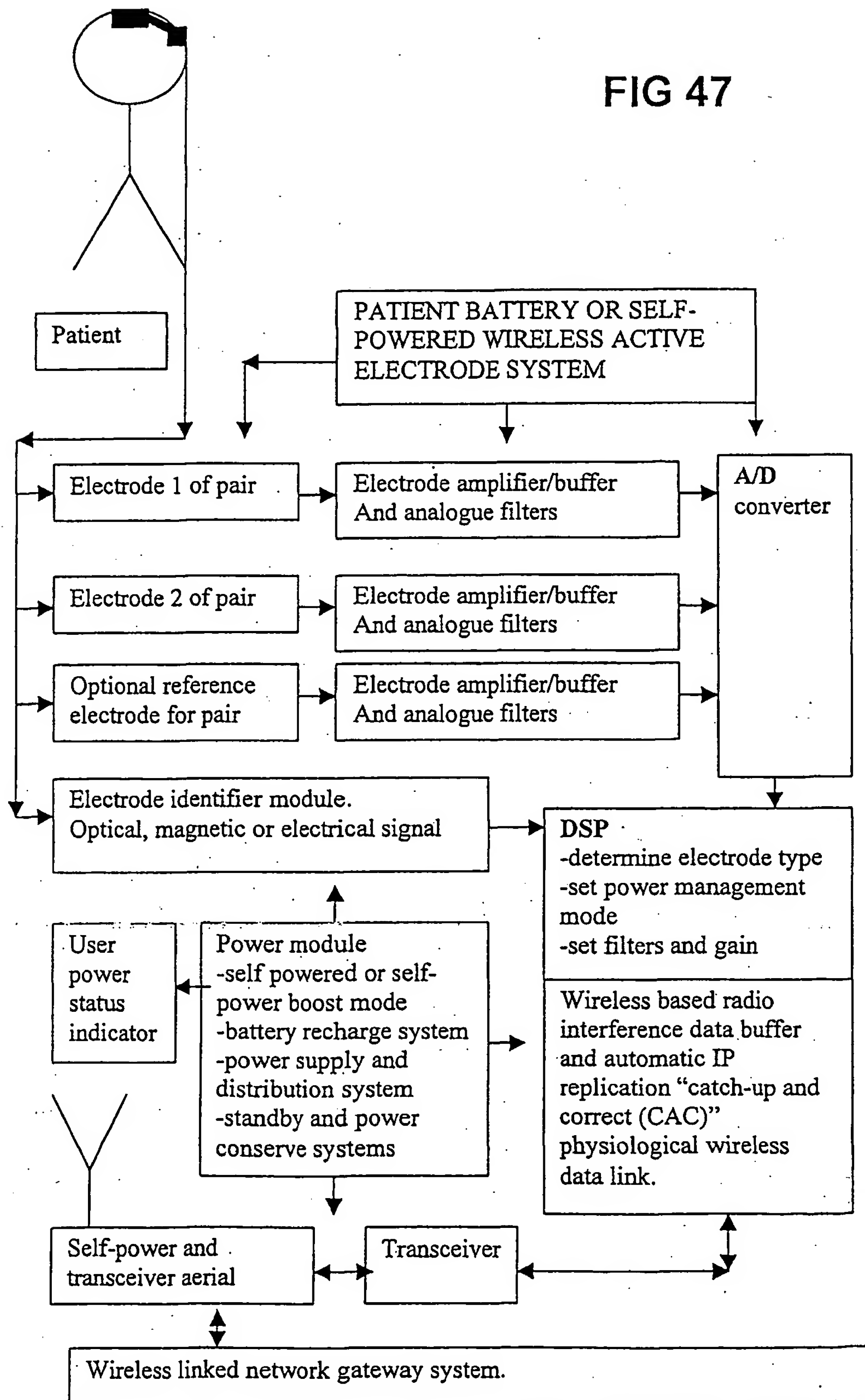


FIG 45



FIG 47



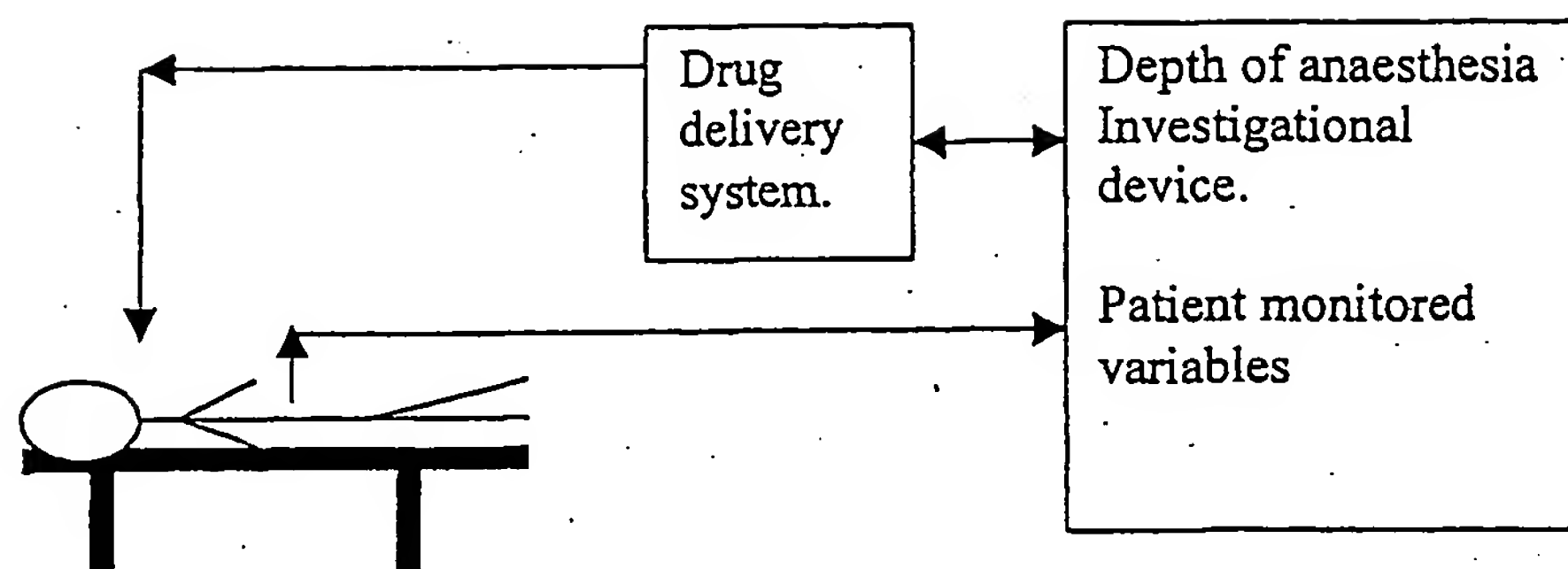


FIG 48

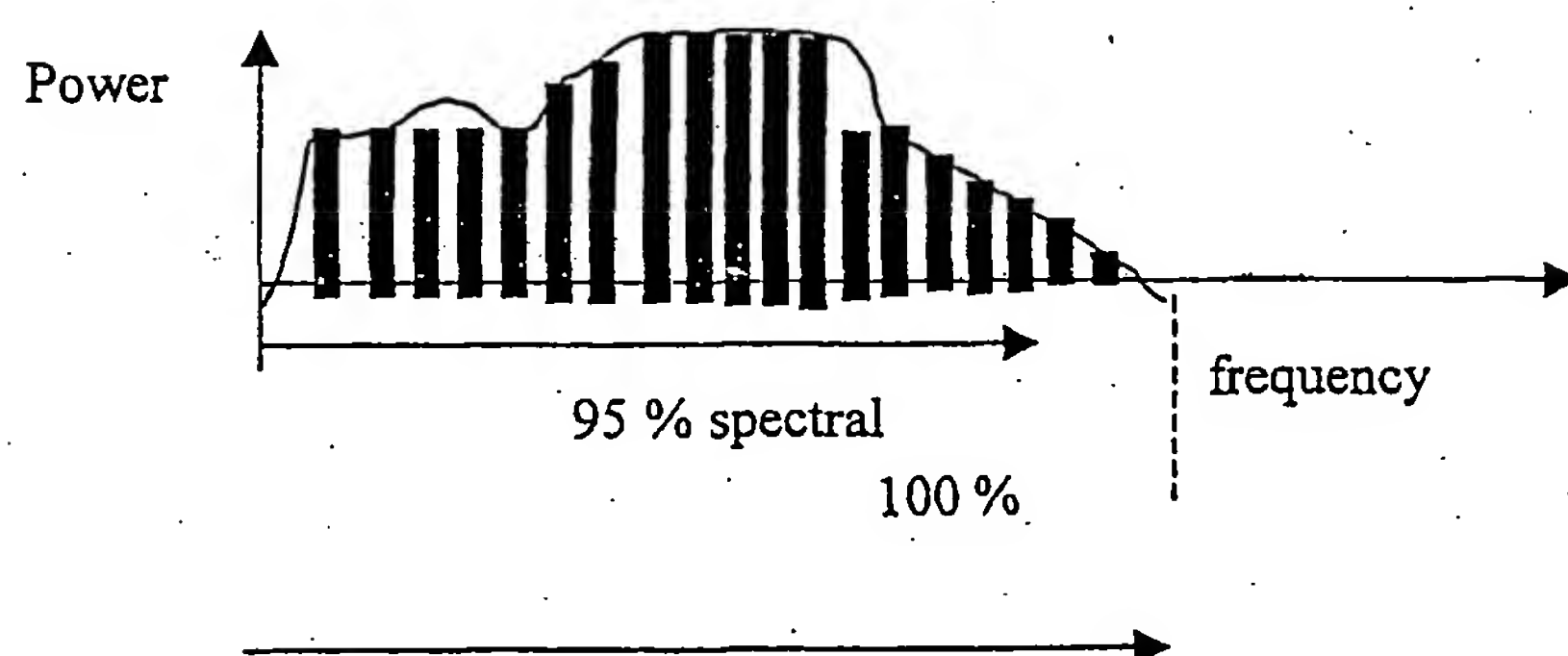


FIG 49